

# TENDER DOCUMENT FOR

# PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP

**TENDER No. KAA/OT/NAROK/0105/2024-2025** 

## **FEBRUARY 2025**

MANAGING DIRECTOR KENYA AIRPORTS AUTHORITY P.O. BOX 19001 – 00501 NAIROBI GENERAL MANAGER (P&ES) KENYA AIRPORTS AUTHORITY P.O. BOX 19001 – 00501 NAIROBI

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#### **INVITATION TO TENDER**

## CONTRACT NO; KAA/OT/NAROK/0105/2024-2025

DATE; 25th February

2025

#### CONTRACT NAME: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP

- 1. The Kenya Airports Authority invites sealed tenders for the construction of the **Proposed Runway** Construction Works at Narok Airstrip
- 2. Tendering will be conducted under open competitive method (National) using a standardized tender document. Tendering is open to all qualified and interested Tenderers.
- 1. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours 0800 to 1300 hours and 1400 to 1700 hours at the address given below.
- 2. A complete set of Tender documents are downloadable from the KAA supplier login screen using the link <a href="https://kaa.go.ke/corporate/procurement/">https://kaa.go.ke/corporate/procurement/</a>. Tender documents obtained electronically will be free of charge.
- 3. Tender documents may be viewed and downloaded for free from the website ((www.kaa.go.ke).). Tenderers who download the tender document must forward their particulars immediately to tenders@kaa.go.ke to facilitate any further clarification or addendum. No other communication channel shall be used except through this email address.
- 4. All Tenders must be accompanied by a *tender Security* of Kenya shillings Seven million (Ksh.7,000,000.00) in the format indicated in the bidding document.
- 5. The Tenderer shall chronologically serialize all pages of the tender documents submitted including any attachments.
- 6. The tender shall be submitted online on or before 13th March 2025 at 11.00 am. Interested bidders who are not in KAA system and therefore do not have login credentials should contact KAA procurement through email: tenders@kaa.go.ke for login credentials early enough and not later than three (3) days before tender closing date. All relevant submission documents must be attached on the login screen (Technical Proposal on Cfolder under technical Rfx Response system will lead you to the second screen (Cfolder) where the system creates a folder specific to you for uploading your response documents, click on "Tech Bid" the system will allow you to create a document, Click "create" button and attach the documents. and Financial Proposal on Price Submission Screen). A step-by-step manual/guide is available for downloading using the link <a href="https://www.kaa.go.ke/corporate/procurement/manuals/">https://www.kaa.go.ke/corporate/procurement/manuals/</a>. Bidders should note that documents submitted for purposes of registration for login credentials do not form part of the tender document.
- 7. All Prices quoted should be inclusive of all costs and taxes; and must be in Kenya shillings and shall remain valid for 186 days from the closing date of Tender.
- 8. Tenders will be opened online immediately on 13<sup>th</sup> March 2025 at 11.00 am at the Conference Room, 1st Floor, Kenya Airports Authority Headquarters complex building. There shall be no physical attendance of the tender opening. However, a virtual link shall be provided to those tenderers who shall submit their tenders online and would wish to participate in the tender opening. Tenderers shall therefore be required to submit their email address to tenders@kaa.go.ke to enable them access this link during tender opening.
- 9. Bidders shall not have access to the eProcurement system after the official closing time.
- 10. The addresses referred to above are:
  - a. Address for obtaining further information and for purchasing tender documents
    - i. Name of Procuring Entity KENYA AIRPORTS AUTHORITY
    - ii. Physical address Kenya Airports Authority Headquarters complex building, Jomo Kenyatta International Airport, Airport North Road, 2<sup>nd</sup> Floor, Procurement & Logistics Department
    - iii. Postal Address P.O Box 19001 00501 Nairobi
    - iv. Officer to be contacted. General Manager, Procurement and Logistics, Email: tenders@kaa.go.ke

b. Address for Submission of Tenders.

- (1) Name of Procuring Entity: Kenya Airports Authority
- (2) Postal Address (include designation to be attentional): General Manager (Procurement & Logistics), P.O. Box 19001-00501 Nairobi
- (3) Tenders shall be submitted through the eProcurement portal.

## c. Address for Opening of Tenders.

- (1) Name of Procuring Entity: Kenya Airports Authority
- (2) Kenya Airports Authority Headquarters complex building, Jomo Kenyatta International Airport, Airport North Road, 1<sup>st</sup> Floor, Procurement & Logistics Department Bidders should note that all our tenders shall be opened virtually through a link to be provided.

Date of advertisement of the Tender Notice: Date: 25th February 2025



#### **SECTIONI-INSTRUCTIONS TO TENDERERS**

#### A GENERAL PROVISIONS

#### 1. Scope of Tender

The Procuring Entity as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The name, identification, and number of lots (contracts) of this Tender Document are **specified in the TDS.** 

#### 2 Fraud and Corruption

- 2.1 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 "Declaration not to engage in corruption". The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.
- The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding <u>collusive</u> <u>practices</u> in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the "Certificate of Independent Tender Determination" annexed to the Form of Tender.
- 2.3 Tenderers shall permit and shall cause their agents (where declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Procuring Entity to inspect all accounts, records and other documents relating to any initial selection process, pre-qualification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Procuring Entity.
- 24 Unfair Competitive Advantage -Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all information that would in that respect give such firm any unfair competitive advantage over competing firms.

## 3. Eligible Tenderers

- 3.1 A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.8, or an individual or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. The maximum number of JV members shall be specified in the **TDS.**
- 32 Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child, Parent, Brother or Sister of a Spouse, their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.
- A Tenderer shall not have a conflict of interest. Any tenderer found to have a conflict of interest shall be disqualified. A tenderer may be considered to have a conflict of interest for the purpose of this tendering process, if the tenderer:
  - a) Directly or indirectly controls, is controlled by or is under common control with another tenderer; or
  - b) Receives or has received any direct or indirect subsidy from another tenderer; or
  - c) Has the same legal representative as another tenderer; or
  - d) Has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process; or
  - e) Any of its affiliates participated as a consultant in the preparation of the design or technical specifications

- of the goods or works that are the subject of the tender; or
- f) any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as a consultant for Contract implementation; or
- g) Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the contract specified in this Tender Document; or
- h) Has a close business or personal relationship with senior management or professional staff of the Procuring Entity who has the ability to influence the bidding process and:
  - i) are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract; or
  - ii) may be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.
- 3.4 A tenderer shall not be involved incorrupt, coercive, obstructive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified.
- A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender.
- 3.6 A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT3.9. A Tenderer shall be deemed to have the nationality of a country if the Tenderer is constituted, incorporated or registered in and operates inconformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or subconsultants for any part of the Contract including related Services.
- 3.7 A Tenderer that has been debarred from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA <a href="www.ppra.go.ke">www.ppra.go.ke</a>.
- 3.8 A Tenderer that is a state-owned enterprise or a public institution in Kenya may be eligible to tender and be awarded a Contract(s) only if it is determined by the Procuring Entity to meet the following conditions, i.e. if it is:
  - i) A legal public entity of Government and/or public administration,
  - ii) financially autonomous and not receiving any significant subsidies or budget support from any public entity or Government, and
  - iii) operating under commercial law and vested with legal rights and liabilities similar to any commercial enterprise to enable it compete with firms in the private sector on an equal basis.
- 39 Firms and individuals shall be ineligible if their countries of origin are:
  - a) as a matter of law or official regulations, Kenya prohibits commercial relations with that country, or
  - b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

3.10 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, local subcontracts and labor) from citizen suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity determine if this condition is met shall be provided for this purpose in "SECTION III-EVALUATION AND QUALIFICATION CRITERIA, Item 9".

not registered in Kenya or if the tenderer is registered in Kenya and has <u>less than 51 percent</u> ownership by Kenyan citizens. JVs are considered as foreign tenderers if the individual member firms are not registered in Kenya or if are registered in Kenya and have less than 51 percent ownership by Kenyan citizens. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.

- 3.12 The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration Certificate before they can undertake any construction works in Kenya. Registration shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website <a href="https://www.nca.go.ke">www.nca.go.ke</a>.
- 3.13 The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website <a href="www.cak.go.ke">www.cak.go.ke</a>.
- 4.14 A Kenyan tenderer shall be eligible to tender if it provides evidence of having fulfilled his/her tax obligations by producing a valid tax compliance or valid tax certificate issued by the Kenya Revenue Authority.

## 4. Eligible Goods, Equipment, and Services

- 4.1 Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not ineligible under ITT3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.
- 42 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

## 5. Tenderer's Responsibilities

- 5.1 The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and the Procuring Entity will in no case be responsible or liable for those costs.
- 52 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the Site of the Works and its surroundings and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the tenderer's own expense.
- 5.3 The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter up on its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity against all liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the examination and inspection.
- 5.4 The tenderer shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including charts, as necessary or required.

## **B.** CONTENTS OF TENDER DOCUMENTS

#### **6.** Sections of Tender Document

6.1 The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT10.

**PART 1**: **Tendering Procedures** Section I: Instructions to Tenderers Section II: Tender Data Sheet (TDS) Section III: Evaluation and Qualification Criteria Section IV: Tendering Forms

**PART 2**: Works' Requirements Section V: Bills of Quantities Section VI: Specifications Section VII: Drawings

**PART3**: Conditions of Contract and Contract Forms Section VIII: General Conditions (GCC) Section IX: Particular Conditions of Contract Section X: Contract Forms

- 62 The Invitation to Tender Notice issued by the Procuring Entity is not part of the Contract documents.
- Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the Tender document, responses to requests for clarification, the minutes of a pre-arranged site visit and those of the pre-Tender meeting (if any), or Addenda to the Tender document in accordance with ITT 10. In case of any contradiction, documents obtained directly from the Procuring Entity shall prevail.
- 6.4 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tender document.

## 7. Clarification of Tender Document, Site Visit, Pre-Tender Meeting

- 7.1 A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address **specified in the TDS** or raise its enquiries during the pre-Tender meeting if provided for in accordance with ITT 7.2. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the **TDS** prior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender documents in accordance with ITT 7.4, including a description of the inquiry but without identifying its source. If so specified **in the TDS**, the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents following the procedure under ITT 8 and ITT 22.2.
- The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the site(s) of the required contracts and obtain all information that may be necessary for preparing a tender. The costs of visiting the Site shall be at the Tenderer's own expense. The Procuring Entity shall specify in the **TDS** if a pre- arranged Site visit and or a pre-tender meeting will be held, when and where. The Tenderer's designated representative is invited to attend a pre-arranged site visit and a pre-tender meeting, as the case may be. The purpose of the site visit and the pre-tender meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 73 The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the **TDS** before the meeting.
- 7.4 Minutes of a pre-arranged site visit and those of the pre-tender meeting, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents. Minutes shall not identify the source of the questions asked.
- The Procuring Entity shall also promptly publish anonymized (*no names*) Minutes of the pre-arranged site visit and those of the pre-tender meeting at the web page identified **in the TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-arranged site visit and those of the pre-tender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 8 and not through the minutes of the pre-Tender meeting. Non-attendance at the pre-arranged site visit and the pre-tender meeting will not be a cause for disqualification of a Tenderer.

#### 8 Amendment of Tender Documents

- 8.1 At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tender Documents by issuing addenda.
- 8.2 Any addendum issued shall be part of the Tender Documents and shall be communicated in writing to all who have obtained the Tender Documents from the Procuring Entity. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's website in accordance with ITT 7.5.
- 83 To give Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity should extend the deadline for the submission of Tenders, pursuant to ITT 22.2.

#### C. PREPARATION OF TENDERS

#### 9. Cost of Tendering

The Tenderer shall meet all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

## 10. Language of Tender

The Tender, as well as all correspondence and documents relating to the tender exchanged by the tenderer and the Procuring Entity, shall be written in the English Language. Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate and notarized translation of the relevant passages into the English Language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

#### 11. Documents Comprising the Tender

- 11.1 The Tender shall comprise the following:
  - a) Form of Tender prepared in accordance with ITT 12;
  - b) Schedules including priced Bill of Quantities, completed in accordance with ITT 12 and ITT 14;
  - c) Tender Security or Tender-Securing Declaration, in accordance with ITT 19.1;
  - d) Alternative Tender, if permissible, in accordance with ITT 13;
  - e) Authorization: written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT 20.3;
  - f) Qualifications: documentary evidence in accordance with ITT 17 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
  - g) Conformity: a technical proposal in accordance with ITT 16;
  - h) Any other document required in the TDS.
- 112 In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed JV Agreement. Change of membership and conditions of the JV prior to contract signature will render the tender liable for disqualification.

#### 12. Form of Tender and Schedules

- 12.1 The Form of Tender and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
- 122 The Tenderer shall furnish in the Form of Tender information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Tender.

## 13. Alternative Tenders

- 13.1 Unless otherwise specified in the TDS, alternative Tenders shall not be considered.
- When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.
- 133 Except as provided under ITT13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.
- 134 When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts

of the Works, and such parts will be identified in the **TDS**, as will the method for their evaluating, and described in Section VII, Works' Requirements.

#### 14. Tender Prices and Discounts

- 14.1 The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Bill of Quantities shall conform to the requirements specified below.
- 142 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.
- 14.3 The price to be quoted in the Form of Tender, in accordance with ITT 12, shall be the total price of the Tender, including any discounts offered.
- 14.4 The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 12
- It will be specified in the **TDS** if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.
- 14.6 Where tenders are being invited for individual lots (contracts) or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 14.4, provided the Tenders for all lots (contracts) are opened at the same time.
- 14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer.

#### 15. Currencies of Tender and Payment

- 15.1 The currency (ies) of the Tender and the currency (ies) of payments shall be the same.
- 152 Tenderers shall quote entirely in Kenya Shillings. The unit rates and the prices shall be quoted by the Tenderer in the Bill of Quantities, entirely in Kenya shillings
  - a) A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya (referred to as "the foreign currency requirements") shall (if so allowed in the **TDS**) indicate in the Appendix to Tender the percentage(s) of the Tender Price (excluding Provisional Sums), needed by the Tenderer for the payment of such foreign currency requirements, limited to no more than two foreign currencies.
  - b) The rates of exchange to be used by the Tenderer in arriving at the local currency equivalent and the percentage(s) mentioned in (a) above shall be specified by the Tenderer in the Appendix to Tender and shall be based on the exchange rate provided by the Central Bank of Kenya on the date 30 days prior to the actual date of tender opening. Such exchange rate shall apply for all foreign payments under the Contract.
- 153 Tenderers may be required by the Procuring Entity to justify, to the Procuring Entity's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data in the Appendix to Tender are reasonable, in which case a detailed breakdown of the foreign currency requirements shall be provided by Tenderers.

## 16. Documents Comprising the Technical Proposal

The Tenderer shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Tender Forms, sufficient detail to demonstrate

the adequacy of the Tenderer's proposal to meet the work's requirements and the completion time.

#### 17. Documents Establishing the Eligibility and Qualifications of the Tenderer

- 17.1 Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.
- 172 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.
- 173 If a margin of preference applies as specified in accordance with ITT33. 1, national tenderers, individually or in joint ventures, applying for eligibility for national preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.
- 17.4 Tenderers shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contract or group of contractors qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and there by help to prevent any corrupt influence in relation to the procurement process or contract management.
- 175 The purpose of the information described **in ITT 17.2** above overrides any claims to confidentiality which a tenderer may have. There can be no circumstances in which it would be justified for a tenderer to keep information relating to its ownership and control confidential where it is tendering to undertake public sector work and receive public sector funds. Thus, confidentiality will not be accepted by the Procuring Entity as a justification for a Tenderer's failure to disclose, or failure to provide required information on its ownership and control.
- 17.6 The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to ownership and control which information on any changes to the information which was provided by the tenderer under ITT 6.4. The obligations to require this information shall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest in relation to the award or management of the contract.
- 17.7 All information provided by the tenderer pursuant to these requirements must be complete, current and accurate as at the date of provision to the Procuring Entity. In submitting the information required pursuant to these requirements, the Tenderer shall warrant that the information submitted is complete, current and accurate as at the date of submission to the Procuring Entity.
- 178 If a tenderer fails to submit the information required by these requirements, its tenderer will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer pursuant to these requirements, then the tender will be rejected.
- 179 If information submitted by a tenderer pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:
  - i) If the procurement process is still on going, the tenderer will be disqualified from the procurement process,
  - ii) If the contract has been awarded to that tenderer, the contract award will be set aside,
  - iii) the tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other persons have committed any criminal offence.
- 17.10 If a tenderer submits information pursuant to these requirements that is incomplete, inaccurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 17.8 will ensue unless the tenderer can show to the reasonable satisfaction of the Procuring Entity that any such act was not material, or was due to genuine error which was not attributable to the intentional act, negligence or recklessness of the tender.

#### 18. Period of Validity of Tenders

- **18.1.** Tenders shall remain valid for the Tender Validity period specified in the **TDS**. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 22). A Tender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
- 18.2 In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for thirty

(30) days beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tender security. A Tenderer granting their quest shall not be required or permitted to modify its Tender.

## **19.** Tender Security

- 19.1 The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified in the **TDS**, in original form and, in the case of a Tender Security, in the amount and currency **specified in the TDS**. A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.
- 192 If a Tender Security is specified pursuant to ITT19.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer's option:
  - i) cash;
  - ii) a bank guarantee;
  - iii) a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority; or
  - iv) a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya, from a reputable source, and an eligible country.
- 193 If an unconditional bank guarantee is issued by a bank located outside Kenya, the issuing bank shall have a correspondent bank located in Kenya to make it enforceable. The Tender Security shall be valid for thirty (30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 18.2.
- 19.4 If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.
- If a Tender Security is specified pursuant to ITT 19.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the Performance Security and any other documents required in the TDS. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were determined non-responsive or a bidder declines to extend tender validity period.
- 19.6 The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security, and any other documents required in the TDS.
- 19.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:
  - a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender, or any extension there to provided by the Tenderer; or
  - b) if the successful Tenderer fails to:
  - i) sign the Contract in accordance with ITT 47; or
  - ii) furnish a Performance Security and if required in the TDS, and any other documents required in the TDS.
- Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA that PPRA debars the Tenderer from participating in public procurement as provided in the law.
- The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT 4.1 and ITT 11.2.
- 19.10 A tenderer shall not issue a tender security to guarantee itself.

#### 20. Format and Signing of Tender

- 20.1 The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number **specified in the TDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 202 Tenderers shall mark as "CONFIDENTIAL" all information in their Tenders which is confidential to their

business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.

- The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the **TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.
- In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 205 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

#### D. SUBMISSION AND OPENING OF TENDERS

## 21. Sealing and Marking of Tenders

- 21.1 The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:
  - a) in an envelope or package or container marked "ORIGINAL", all documents comprising the Tender, as described in ITT11: and
  - b) in an envelope or package or container marked "COPIES" all required copies of the Tender; and
  - c) if alternative Tenders are permitted in accordance with ITT 13, and if relevant:
    - i) in an envelope or package or container marked "ORIGINAL ALTERNATIVE TENDER", the alternative Tender; and
    - ii) in the envelope or package or container marked "COPIES-ALTERNATIVETENDER", all required copies of the alternative Tender.

The inner envelopes or packages or containers shall:

- a) bear the name and address of the Procuring Entity.
- b) Bear the name and address of the Tenderer; and
- c) Bear the name and Reference number of the Tender.
- If an envelope or package or container is not sealed and marked as required, the *Procuring Entity* will assume no responsibility for the misplacement or premature opening of the Tender. Tenders that were misplaced or opened prematurely will not be accepted.

#### 22. Deadline for Submission of Tenders

- 22.1 Tenders must be received by the Procuring Entity at the address specified in the **TDS** and no later than the date and time also specified in the **TDS**. When so specified in the **TDS**, Tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the **TDS**.
- The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Documents in accordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

#### 23. Late Tenders

The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 22. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

#### 24. Withdrawal, Substitution, and Modification of Tenders

24.1 A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance

with ITT 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:

- a) prepared and submitted in accordance with ITT 20 and ITT 21 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and
- b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.
- 242 Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.
- No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Form of Tender or any extension thereof.

#### 25. Tender Opening

- 25.1 Except in the cases specified in ITT 23 and ITT 24.2, the Procuring Entity shall publicly open and read out all Tenders received by the deadline, at the date, time and place specified **in the TDS**, in the presence of Tenderers' designated representatives and anyone who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 22.1, shall be as specified in the **TDS**.
- 252 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelopes with the corresponding Tender shall not be opened but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out attender opening.
- Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.
- Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Tender.No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening.
- Next, all remaining envelopes shall be opened on eata time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.
- 25.6 Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bill of Quantities (to be decided on by the tender opening committee) are to be initialed by the members of the tender opening committee attending the opening.
- 25.7 At the Tender Opening, the Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).
- 25.8 The Procuring Entity shall prepare minutes of the Tender Opening that shall include, as a minimum:
  - a) The name of the Tenderer and whether there is a withdrawal, substitution, or modification;
  - b) The Tender Price, per lot (contract) if applicable, including any discounts;
  - c) any alternative Tenders;
  - d) the presence or absence of a Tender Security, if one was required.
  - e) number of pages of each tender document submitted.
- 259 The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of a Tenderer's signature on the minutes shall not invalidate the contents and effect of the minutes. A copy of tender opening register shall be issued to a tenderer upon request.

#### E. Evaluation and Comparison of Tenders

#### 26. Confidentiality

- 26.1 Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderers or any other persons not officially concerned with the Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 43.
- Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its tender.
- Notwithstanding ITT 26.2, from the time of tender opening to the time of contract award, if a tenderer wishes to contact the Procuring Entity on any matter related to the tendering process, it shall do so in writing.

#### **27.** Clarification of Tenders

- 27.1 To assist in the examination, evaluation, and comparison of the tenders, and qualification of the tenderers, the Procuring Entity may, at its discretion, ask any tenderer for a clarification of its tender, given a reasonable time for a response. Any clarification submitted by a tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the evaluation of the tenders, in accordance with ITT 31.
- 272 If a tenderer does not provide clarifications of its tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

#### 28. Deviations, Reservations, and Omissions

- 28.1 During the evaluation of tenders, the following definitions apply:
  - a) "Deviation" is a departure from the requirements specified in the tender document;
  - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tender document; and
  - c) "Omission" is the failure to submit part or all of the information or documentation required in the Tender document.

## 29. Determination of Responsiveness

- 29.1 The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the tender itself, as defined in ITT 11.
- A substantially responsive Tender is one that meets the requirements of the Tender document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, if accepted, would:
  - a) Affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
  - b) limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract; or
  - c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.
- 293 The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 16, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.
- 29.4 If a tender is not substantially responsive to the requirements of the tender document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

#### 30. Non-material Non-conformities

30.1 Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.

- 302 Provided that a Tender is substantially responsive, the Procuring Entity may request that the tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial non-conformities in the tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the tender. Failure of the tenderer to comply with the request may result in the rejection of its tender.
- Provided that a tender is substantially responsive, the Procuring Entity shall rectify quantifiable nonmaterial non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified in the TDS.

#### 31. Arithmetical Errors

- 31.1 The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in anyway by any person or entity.
- Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:
  - a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
  - b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, sub total and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. and
  - c) If there is a discrepancy between words and figures, the amount in words shall prevail
- 32. Tenderers shall be notified of any error detected in their bid during the notification of award. Conversion to Single Currency

For evaluation and comparison purposes, the currency (ies) of the Tender shall be converted into a single currency **as specified in the TDS**.

## 33. Margin of Preference and Reservations

- 33.1 A margin of preference may be allowed only when the contract is open to international competitive tendering where foreign contractors are expected to participate in the tendering process and where the contract exceeds the value/threshold specified in the Regulations.
- 332 A margin of preference shall not be allowed unless it is specified so in the **TDS**.
- Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 33.4.
- Where it is intended to reserve a contract to a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case may be), and who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses or firms belonging to the specified group are eligible to tender. No tender shall be reserved to more than one group. If not so stated in the Invitation to Tender and in the Tender documents, the invitation to tender will be open to all interested tenderers.

#### 34. Nominated Subcontractors

- 34.1 **Unless** otherwise stated **in the TDS**, the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity. Incase the Procuring Entity nominates a subcontractor, the subcontract agreement shall be signed by the Subcontractor and the Procuring Entity. The main contract shall specify the working arrangements between the main contractor and the nominated subcontractor.
- Tenderers may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified **in the TDS**. Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.
- 343 Domestic subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their

specialized parts of the Works were previously designated so by the Procuring Entity **in the TDS** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

#### 35. Evaluation of Tenders

- 35.1 The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Lowest Evaluated Tender in accordance with ITT 40.
- 352 To evaluate a Tender, the Procuring Entity shall consider the following:
  - a) Price adjustment in accordance with ITT 31.1(iii); excluding provisional sums and contingencies, if any, but including Day work items, where priced competitively;
  - b) Price adjustment due to discounts offered in accordance with ITT 14.4;
  - c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 32;
  - d) price adjustment due to quantifiable non material non-conformities in accordance with ITT 30.3; and
  - e) any additional evaluation factors specified **in the TDS** and Section III, Evaluation and Qualification Criteria.
- 353 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered intender evaluation.
- Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or more lots (contracts). Each lot or contract will be evaluated in accordance with ITT 35.2. The methodology to determine the lowest evaluated tenderer or tenderers based one lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

## **36.** Comparison of Tenders

The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 35.2 to determine the Tender that has the lowest evaluated cost.

#### 37. Abnormally Low Tenders and Abnormally High

#### **Tenders Abnormally Low Tenders**

- 37.1 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price or that genuine competition between Tenderers is compromised.
- 372 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.
- 373 After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

## **Abnormally High Tenders**

- An abnormally high tender price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.
- Incase of an abnormally high price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may

also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:

- i) If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not accept the tender depending on the Procuring Entity's budget considerations.
- ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.
- 37.6 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (often due to collusion, corruption or other manipulations), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

#### 38. Unbalanced and/or Front-Loaded Tenders

- 38.1 If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/or front loaded, the Procuring Entity may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the tender prices with the scope of works, proposed methodology, schedule and any other requirements of the Tender document.
- 382 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:
  - a) accept the Tender; or
  - b) require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding a 10% of the Contract Price; or
  - c) agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much for undelivered works; or
  - d) reject the Tender,

#### 39. Qualifications of the Tenderer

- 39.1 The Procuring Entity shall determine to its satisfaction whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.
- 392 The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 17. The determination shall not take into consideration the qualifications of other firms such as the Tenderer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.
- An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

#### 40. Lowest Evaluated Tender

Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Lowest Evaluated Tender. The Lowest Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:

- a) Most responsive to the Tender document; and
- b) The lowest evaluated price.

## 41. Procuring Entity's Right to Accept Any Tender, and to Reject Any or All Tenders.

The Procuring Entity reserves the right to accept or reject any Tender and to annul the Tender process and reject all Tenders at any time prior to Contract Award, without there by incurring any liability to Tenderers. Incase of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

## F. AWARD OF CONTRACT

#### 42. Award Criteria

The Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender.

#### 43. Notice of Intention to enter into a Contract

Upon award of the contract and Prior to the expiry of the Tender Validity Period the Procuring Entity shall issue a <u>Notification of Intention to Enter into a Contract</u>/Notification of award to all tenderers which shall contain, at a minimum, the following information:

- a) the name and address of the Tenderer submitting the successful tender;
- b) the Contract price of the successful tender;
- a statement of the reason(s) the tender of the unsuccessful tenderer to whom the letter is addressed was unsuccessful, unless the price information in (c) above already reveals the reason;
- d) the expiry date of the Standstill Period; and
- e) instructions on how to request a debriefing and/or submit a complaint during the stand still period;

#### 44. Stand still Period

- The Contract shall not be signed earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied tender to launch a complaint. Where only one Tender is submitted, the Standstill Period shall not apply.
- Where a Standstill Period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter into a Contract with the successful Tenderer.

#### 45. Debriefing by the Procuring Entity

- 45.1 On receipt of the Procuring Entity's <u>Notification of Intention to Enter into a Contract</u> referred to in ITT 43, an unsuccessful tenderer may make a concern regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.
- Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

#### 46. Letter of Award

Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 42.1, upon addressing a complaint that has been filed within the Standstill Period, the Procuring Entity shall transmit the <u>Letter of Award</u> to the successful Tenderer. The letter of award shall request the successful tenderer to furnish the Performance Security within 21 days of the date of the letter.

#### 47. Signing of Contract

- 47.1 Upon the expiry of the fourteen days of the Notification of Intention to enter into contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.
- Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.
- The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

## **48.** Performance Security

48.1 Within twenty-one (21) days of the receipt of the Letter of Award from the Procuring Entity, the successful Tenderer shall furnish the Performance Security and, any other documents required in the **TDS**, in accordance with the General Conditions of Contract, subject to ITT 38.2 (b), using the Performance Security and other Forms included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. A foreign institution providing a bank guarantee shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent bank is not required.

- Failure of the successful Tenderer to submit the above-mentioned Performance Security and other documents required in the **TDS** or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.
- Performance security shall not be required for contracts estimated to cost less than the amount specified in the Regulations.

#### **49.** Publication of Procurement Contract

Within fourteen days after signing the contract, the Procuring Entity shall publish the awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information:

- a) name and address of the Procuring Entity;
- b) name and reference number of the contract being awarded, a summary of its scope and the selection method used;
- c) the name of the successful Tenderer, the final total contract price, the contract duration.
- d) dates of signature, commencement and completion of contract;
- e) names of all Tenderers that submitted Tenders, and their Tender prices as read out at Tender opening.

## **50.** Procurement Related Complaint

The procedures for making Procurement-related Complaints shall be specified in the **TDS**.

## **Section II - Tender Data Sheet (TDS)**

The following specific data shall complement, supplement, or amend the provisions in the Instructions to Tenderers (ITT). Whenever there is a conflict, the provisions herein shall prevail over those in ITT.

ITT Reference	A. General
ITT 1.1	The name of the contract is <b>PROPOSED RUNWAY CONSTRUCTION WORKS AT</b>
	NAROK AIRSTRIP
	The reference number of the contract is: KAA/OT/NAROK /0105/2024-2025
	The number and identification of lots (contracts) comprising this Tender are
	[Lot 1 – NameN/A Lot 2 – NameN/A
	Lot NameN/A
	Lot IvameIVA
ITT 2.3	The Information made available on competing firms is as follows
	_N/A
ITT 2.4	The firms that provided consulting services for the contract being tendered for are:
	N/A
ITT 3.1	This invitation to tender is open to CITIZEN CONTRACTORS in accordance PUBLIC
111 3.1	PROCUREMENT AND ASSET DISPOSAL ACT 2015.
	Maximum number of members in the Joint Venture (JV) shall be: N/A
	B. Contents of Tendering Document.
ITT 7.1	(i) The Tenderer will submit any request for clarifications in writing at the address
	Attention: General Manager, Procurement & Logistics
	Postal Address: P.O. Box 19001-00501 Nairobi, Kenya
	Physical Address: Kenya Airports Authority Headquarters Complex Building, Jomo
	Kenyatta International Airport, Airport North Road, 2nd Floor, Procurement & Logistics Department
	Electronic mail address: tenders@kaa.go.ke
	Request for clarification should be received by the Procuring Entity no later than: three (3)
	days. The Procuring Entity will publish its response at the website _at
	https://kaa.go.ke/corporate/procurement/
ITT 17.2	(A) A pre-arranged pretender site visit "shall" take place at the following data, time and place:
	Date:: 6 <sup>th</sup> March 2025
	Time: 10.00am
	Address: Narok Airstrip-Narok County
	Email: tenders@kaa.go.ke
	A representative of the Employer will be available to meet the tenderers on the specified time
	for the site visit and sign the completed Certificate of Tenderer's Visit to the Site. Tenderers
	must provide their own transport.
	The bidder's representative must meet the following for the site visit.

	1.011.11.11.11.11.11.11.11.11.11.11.11.1
	1. Original introductory letter on the company letterhead detailing the names and ID number of the hidder's representative
	of the bidder's representative.
	2. Original ID,
	3. Copy of ID,
	4. Copy of certificate of registration or legal registration document of the bidder.
	5. Appropriate Personal protective equipment (PPE)
	6. Site visit attendance is <b>MANDATORY</b> by the proposed Site Agent or a person who meets the minimum qualifications of the Site Agent. The attendance sheet shall be signed by the
	personnel and submitted as proof of attendance.
	Signed and Stamped Certificate of Tenderer's Site visit will be issued by the Employer's representative upon confirmation of meeting the mandatory site visit requirements.
	Copies of the documents shall be left with the KAA representative.
	During the pre-bid site visit /meeting no person will be allowed to represent more than one prospective bidder.
ITT 7.3	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later than three (3) days before the tender closing date.
ITT 7.5	The Procuring Entity's website where Minutes of the pre-tender meeting and the pre-arranged pretender will be published is <a href="https://kaa.go.ke/corporate/procurement/">https://kaa.go.ke/corporate/procurement/</a>
	C. Preparation of Tenders
ITT 11.1 (h)	The Tenderer shall submit the following additional documents in its Tender: All documents indicated as mandatory in the evaluation criteria.
ITT 13.1	Alternative Tenders "shall not be" considered.
ITT 13.2	Alternative times for completion "shall not be" permitted.
ITT 13.4	Alternative technical solutions shall NOT be permitted for the following parts of the Works:All parts
ITT 14.5	The prices quoted by the Tenderer shall be <i>fixed</i> .
ITT 15.2	Foreign currency requirements is <b>not allowed</b>
ITT 18.1	The Tender Validity period shall be one hundred and eighty six (186) days from the date of tender opening.
ITT 19.1	Tender Security amounting to <b>Ksh.7,000,000.00</b> in the prescribed format valid for <b>216 days</b> from the tender opening date.
	The tender security shall be in any of the following forms:  a) cash or banker's cheque, or  b) a bank guarantee, or
	c) guarantee issued by a reputable insurance company approved by Public Procurement Regulatory Authority (PPRA).  Bidders are required to note the following:
	(I)Those who have obtained a digital tender security must provide it online with their tender document in the KAA portal. The digital tender security must have a mechanism to

	verify such as use of quick response (QR) code or an online portal. They do not need to provide a hard copy of the tender security physically.  (ii)Those who do not provide a digital tender security as per (i) above will be required to submit an original Tender Security physically to the office of the General
	Manager, Procurement and Logistics department, KAA Headquarters, 2nd Floor on or before the closing/opening date and time
ITT 20.1	In addition to the original of the Tender, the number of copies is: N/A_
ITT 20.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of:  Power of Attorney certified by a Commissioner of Oaths.
	D. Submission and Opening of Tenders
ITT 21.3	
	A tender package or container that cannot fit in the tender box shall be received as follows: N/A- Refer to ITT 25.1 below
ITT 22.1	For <u>Tender submission purposes</u> only the following the Procuring Entity's address is approved:  Kenya Airports Authority General Manager (Procurement & Logistics) P.O. BOX 19001-00501 Nairobi
	Physical Address for hand courier delivery of the tender security only is: Kenya Airports Authority Headquarters Complex Building, Jomo Kenyatta International Airport, Airport North Road, 2nd Floor, Procurement & Logistics Department
	Date and time for submission of Tenders13 <sup>th</sup> March 2025 at 11:00am
	Please note that all our tenders shall be <b>submitted</b> electronically except the original tender security.
ITT 25.1	The procedure of electronic tender submission is as <b>specified below</b> :
	1. Upon accessing the tender documents, you will be required to respond to the tender <b>online</b> using the following link <a href="https://suppliers.kaa.go.ke/irj/portal">https://suppliers.kaa.go.ke/irj/portal</a> .
	2. Interested bidders who are not in KAA system and therefore do not have login credentials should contact KAA procurement through email: tenders@kaa.go.ke for login credentials early enough and not later than three (3) days before tender closing date.
	3. All relevant submission documents must be attached on the login screen (Technical Proposal on Cfolder under technical Rfx Response system will lead you to the second screen (Cfolder) where the system creates a folder specific to you for uploading your response documents, Do not click and attach your documents on the collaboration folder. click on "Tech Bid" the system will allow you to create a document, Click "create" button and attach the documents. and Financial Proposal on Price Submission Screen).
	4. A step by step manual/guide is available for downloading using the link <a href="https://www.kaa.go.ke/corporate/procurement/manuals/">https://www.kaa.go.ke/corporate/procurement/manuals/</a>
	<ol> <li>Completed Tender documents and its attachments shall be submitted online before the closing date 13<sup>th</sup> March 2025 at 11.00 am</li> </ol>
	E. Evaluation and Comparison of Tenders
ITT 30.3	The adjustment shall be based on the <i>average</i> price of the item or component as quoted in other substantially responsive tenders. If the price of the item or component cannot be derived from

	the price of other substantially responsive tenders, the Procuring Entity shall use its Lowest estimate.
ITT 32.1	The Tender Price and all unit rates shall be in Kenya Shillings ONLY.
ITT 33.2	A Margin of preference "shall not" apply.
ITT 33.4	
	The invitation to tender is extended to the following groups that qualify for Reservations
	N/A
ITT 34.1	At this time, the Procuring Entity "does not intend" to execute certain specific parts of the Works by subcontractors selected in advance.
ITT 34.2	
	Contractor's may propose subcontracting: Maximum percentage of subcontracting permitted is 30% of the total contract amount. Tenderers planning to subcontract more than 30% of total volume of work shall specify, in the Form of Tender, the activity (ies) or parts of the works to be subcontracted along with complete details of the subcontractors and their qualification and experience.
ITT 34.3	The control of the Wester Countries to December 1975 To the country of Tenderson to
	The parts of the Works for which the Procuring Entity permits Tenderers to propose specialized subcontractors are designated as follows:  Not applicable.
ITT 35.2 (e)	Additional requirements apply.  These are as detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria
ITT 48.1	Additional requirements are:
	Not Applicable
ITT 50	The procedures for making a Procurement-related Complaints are available from the <b>PPRA</b> website <a href="mailto:info@ppra.go.ke">info@ppra.go.ke</a> or <a href="mailto:complaints@ppra.go.ke">complaints@ppra.go.ke</a> .
	If a Tenderer wishes to make a Procurement –related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by hand delivery or email to:  General Manager, Procurement & Logistics  Kenya Airports Authority  Email address: tenders@kaa.go.ke
	In summary, a Procurement-related Complaint may challenge any of the following:  (i)  The terms of the Tender Documents; and  (ii)  The Procuring Entity's decision to award the contract

## SECTION III- EVALUATION AND QUALIFICATION CRITERIA

#### **General Provisions**

#### 1. General Provisions

- 1.1 This section contains the criteria that the Employer shall use to evaluate tender and qualify tenderers. No other factors, methods or criteria shall be used other than specified in this tender document. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity shall use **the Standard Tender Evaluation Document for Goods and Works** for evaluating Tenders.
- Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:
  - a) For construction turnover or financial data required for each year Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.
  - b) Value of single contract Exchange rate prevailing on the date of the contract signature.
  - c) Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

#### 13 Evaluation and contract award Criteria

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate tenders and arrive at the Lowest Evaluated Tender. The tender that (i) meets the qualification criteria, (ii) has been determined to be substantially responsive to the Tender Documents, and (iii) is determined to have the Lowest Evaluated Tender price shall be selected for award of contract.

## 2. Preliminary examination for Determination of Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements of "Part 2 – Procuring Entity's Works Requirements", including checking for tenders with unacceptable errors, abnormally low tenders, abnormally high tenders and tenders that are front loaded. The Standard Tender Evaluation Report for Goods and Works for evaluating Tenders provides clear guidelines on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered irresponsive and will not be considered further.

The following is the preliminary evaluation criteria.

No	Item	Requirement
1	Copy of certificate of Registration/Incorporation or partnership deed to show that the applicant is a registered company and legally authorized to do business in Kenya.	Must Meet
2	A valid and current KRA tax compliance certificate.	Must Meet
3	Copy of valid registration certificate issued by the National Construction Authority (NCA) for class NCA 1 or higher for civil works category. The registration certificate <b>Must</b> be accompanied by a Valid NCA practicing license.	Must Meet
4	Copies of the following documents as proof of access to liquid assets of not less than Kshs. 300 Million or capacity to have a minimum cash flow of Kshs 300 million. This shall be evidenced by any of the following:  1. Letter of line of credit from approved financial institution addressed to the Managing Director, Kenya Airports Authority and specific to this project and indicating the amount available or  2. Overdraft facility from a commercial bank addressed to the Managing Director, Kenya Airports Authority and specifically for this project and indicating the amount to be availed or  3. Current bank statement for the last twelve months  4. Or a combination of the above	Must Meet

5		Must Meet
J	Tender Security amounting to <b>Ksh.7,000, 000.00</b> in the prescribed format valid for <b>216 days</b> from the tender opening date.	Wast Neet
	The tender security shall be in any of the following forms:  a) cash or banker's cheque, or  b) a bank guarantee, or  c) guarantee issued by a reputable insurance company approved by	
	Public Procurement Regulatory Authority (PPRA).  Bidders are required to note the following:  (I)Those who have obtained a digital tender security must provide it online with their tender document in the KAA portal. The digital tender security	
	must have a mechanism to verify such as use of quick response (QR) code or an online portal. They do not need to provide a hard copy of the tender security physically.  (ii) Those who do not provide a digital tender security as per (i) above will be required to submit an original Tender Security physically to the office of	
	the General Manager, Procurement and Logistics department, KAA Headquarters, 2nd Floor on or before the closing/opening date and time	
6	Average Annual Construction Turnover.  Minimum Annual average construction turnover of Four Hundred Million Kenya Shillings or equivalent (KES 400,000,000.00) calculated as total certified payments received for contracts completed within the last [4] Four years from the date of this tender. Evidenced by Completion Certificates/Interim Payment Certificates divided by 4 years	Must Meet
7	A written power of Attorney authorizing the signatory of the tender to commit the Tenderer certified by a commissioner for oath. This requirement is not applicable to sole proprietorships.	Must Meet
8	Duly filled Confidential Business Questionnaire form.	Must Meet
9	Copy of CR 12. Where one or more of the shareholders is a company (Beneficial Ownership) the CR12 of such a company shall be provided. This requirement is not applicable to sole proprietorships and partnerships. However, where the CR12 of the beneficial shareholders is not available, as at the time of the tender submission, the successful bidder shall be required to submit it before execution of the contract.	Must Meet
	This requirement is not applicable to sole proprietorships and partnerships registered under Business Names. Provide copy of CR12 or equivalent from country of origin (in case of joint venture with a foreign company), providing a list of directors and shareholding status.	
10	Tender Document to be sequentially serialized from the first to the last page including all the attachments in numerical digits format. All blank pages must clearly marked "BLANK".	Must Meet
11	Copy of Valid Business Permit with License Number	Must Meet
12	<ul> <li>Duly filled, signed and stamped Form of Tender</li> <li>Not having been declared ineligible by the PPRA as described in ITT 3.7</li> </ul>	Must Meet
	INo conflicts of interest in accordance with ITT3.3	
13	Duly filled Certificate Of Independent Tender Determination	Must Meet
14	a) Self Declaration that the Person/Tenderer is not Debarred in the Matter of the Public Procurement And Asset Disposal Act 2015.	Must Meet
	b) Duly filled and stamped Self Declaration that the Person/Tenderer will not engage in any corrupt or fraudulent practice.	_
1.5	c) Duly filled Declaration and commitment to the Code of Ethics	Most Mark
15	Duly filled and signed Tender questionnaire	Must Meet

16	Bidders must fill the following forms and submit them with their tender.  • Key personnel  • Completed works  • Schedule of ongoing works	Must Meet
17.	Duly filled and signed Form of Tender	Must Meet

NB: Bidders who are not responsive to the above criteria shall be disqualified and will not be evaluated further

The following is the technical qualification requirement.

1	Proof of three (3) similar works (roads/runway pavements earthworks and asphalt laying) completed as a Prime Contractor within the last 5 years (from 2024 to 2019) each with a minimum of not less than Ksh.400 million each evidenced by;  • Copy of Defects Liability Certificates; or • Copy of completion/Taking Over certificate; or • Interim payment certificate of not less than 70% value of the contract;	Must Meet
2	<ul> <li>Equipment and Machinery Must demonstrate availability of the following key minimum equipment necessary to undertake the work. The equipment must be serviceable and in good working condition.</li> <li>a) 2 No. Motor Grader - (CAT 140H or equivalent)</li> <li>b) 2 No. Water Bowser - (≥8,000 Lts)</li> <li>c) 15 No. Tipper trucks - ≥15 Tonnes</li> <li>d) 2 No. Pneumatic Tyred Roller - ≥8 Tonnes (for AC works)</li> <li>e) 2 No. Vibrating Drum Roller - ≥8 Tonnes</li> <li>f) 1 No. Pressure bitumen distributor -≥ 8,000 Litres</li> <li>g) 1 No. AC Paver.</li> <li>h) 1No. Asphalt Plant (production 30-120 Tonnes/hr)</li> <li>i) 1 No. Self-propelled pulvimixer</li> <li>j) 1 No sheep foot roller</li> <li>k) 1 No. Wheel Loader - CAT 950G or equivalent</li> <li>l) 2 No. Excavator</li> <li>Notes</li> <li>• The equipment must be owned, must provide CLEAR copies of log book or proof of ownership;</li> </ul>	Must Meet
3	Work methodology	Must
4	Work methodology for asphalt concrete pavement construction  Work Plan	Meet Must
4	<ul> <li>Resourced work program in the form of a Gantt chart prepared</li> </ul>	Meet
	using MS project or similar computer software	Wicci
5	Safety Plan	Must
	Construction safety plan	Meet

Qualifications and technical experience of site personnel to manage Must and execute the works on the site. Meet Bidders shall submit the following documents which shall be certified by the employer as true copies of the original to be used for evaluation: 1. Certified copies of academic certificates 2. Certified copies of professional certificates 3. Certifies copies of current practicing licenses 4. Curriculum vitae signed by the nominee 5. A written undertaking signed by the nominee confirming his/her availability to carry out the assignment upon winning the bid. The written undertaking shall be addressed to MD/CEO Kenya Airports Authority and must be specific to this tender Site Agent/Site Engineer (Principal site representative of the contractor): 1. BSc. Civil Engineering 2. Registered Professional Civil Engineer with the Engineers Board of Kenya (EBK) and a Corporate Member of the Institution of Engineers of Kenya (IEK) and must have a valid current EBK practicing license with 10 Years Post Registration Experience as a Professional Engineer. 3. Specific experience on asphalt concrete pavements (roads/airports) – Ten years **Assistant Site Agent/ Site Engineer** 1. BSc Civil Engineering 2. Registered Professional Civil Engineer with the Engineers Board of Kenya (EBK) and a Corporate Member of the Institution of Engineers of Kenya (IEK) and must have a valid current EBK practicing license with 5 Years Post Registration Experience as a Professional Engineer. 3. Specific experience on asphalt concrete pavements (roads/airports) – Five years **Site Foreman (Earthworks)** 1. BSc. or National Diploma in Civil Engineering 2. Experience – Five years 3. Specific experience on in earthworks (roads / airports) – Five years **Site Foreman (Asphalt Concrete Works)** 1. BSc. or National Diploma in Civil Engineering 2. Experience – Five years 3. Specific experience on asphalt concrete works - Five years **Engineering Surveyor** 1. BSc. in Surveying/Civil Engineering 2. Experience on roads/aircraft pavements or similar survey work – Five years Lab Technologist 1. BSc. or National Diploma in Civil Engineering 2. Experience – Five years in materials testing. 7. Bidders must submit a satisfactory site organizational structure Must detailing the positions and the names of the nominees. Meet

8.	Site visit attendance is mandatory preferably by one of the listed	Must		
	personnel who meets the minimum qualifications in either of the first			
	four personnel categories in No 6 above.			

NOTE: Tenderers who will not meet ANY of the above preliminary and technical requirements that is mandatory will not be evaluated further.

1. Tender Evaluation (ITT 35)

#### FINANCIAL EVALUATION

Only the bids which will be responsive to the technical requirement shall undergo financial evaluation which shall include evaluation of:

- i. Duly completed and signed Form of Tender and the appendix to the form of tender in the format contained in this bid document
- ii. Priced Bill of Quantities in the format contained in this bid document.

The financial evaluation will be based on the lowest evaluated price.

Note: Bidders are hereby notified that due diligence shall be carried out on information provided by the bidder. Any false information provided will lead to automatic disqualification irrespective at any stage of the procurement process or contract execution.

**Price evaluation**: In addition to the criteria listed in ITT 35.2 (a) – (d) the following criteria shall apply:

- iii) Other Criteria; if permitted under ITT 35.2(d) ....N/A.....

## 2. Multiple Contracts – N/A

a. Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated on basis of Lots and the lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

#### **OPTION 1**

- i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.
- ii) If a tenderer wins more than one Lot, the tender will be awarded contracts for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the Lots. The tenderer will be awarded the combination of Lots for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

#### OPTION 2 - N/A

The Procuring Entity will consider all possible combinations of won Lots [contract(s)] and determine the combinations with the lowest evaluated price. Tenders will then be awarded to the Tenderer or Tenderers in the combinations provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots.

## 3. Alternative Tenders (ITT 13.1) – N/A

An alternative if permitted under ITT 13.1, will be evaluated as follows:

The Procuring Entity shall consider Tenders offered for alternatives as specified in Part2-Works Requirements. Only the technical alternatives, if any, of the Tenderer with the Best Evaluated Tender conforming to the basic

#### 4. MARGIN OF PREFERENCE – N/A

- a. If the TDS so specifies, the Procuring Entity will grant a margin of preference of fifteen percent (15%) to be loaded one valuated price of the foreign tenderers, where the percentage of shareholding of Kenyan citizens is less than fifty-one percent (51%).
  - b. Contractors applying for such preference shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contract or or group of contractors qualifies for a margin of preference.
  - c. After Tenders have been received and reviewed by the Procuring Entity, responsive Tenders shall be assessed to ascertain their percentage of shareholding of Kenyan citizens. Responsive tenders to shall be classified into the following groups:
    - i) Group A: tenders offered by Kenyan Contractors and other Tenderers where Kenyan citizens hold shares of over fifty one percent (51%).
    - ii) Group B: tenders offered by foreign Contractors and other Tenderers where Kenyan citizens hold shares of less than fifty one percent (51%).
- d. All evaluated tenders in each group shall, as a first evaluation step, be compared to determine the lowest tender, and the lowest evaluated tender in each group shall be further compared with each other. If, as a result of this comparison, a tender from Group A is the lowest, it shall be selected for the award. If a tender from Group B is the lowest, an amount equal to the percentage indicated in Item 3.1 of the respective tender price, including unconditional discounts and excluding provisional sums and the cost of day works, if any, shall be added to the evaluated price offered in each tender from Group B. All tenders shall then be compared using new prices with added prices to Group Band the lowest evaluated tender from Group A. If the tender from Group A is still the lowest tender, it shall be selected for award. If not, the lowest evaluated tender from Group B based on the first evaluation price shall be selected.

# 5. Post qualification and Contract award (ITT 39), more specifically, - to use the technical evaluation criteria provided above in no. 2 and 3 above.

- a) In case the tender <u>was subject to post-qualification</u>, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
- b) In case the tender <u>was not subject to post-qualification</u>, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions.
  - i) Other conditions depending on their seriousness.

#### a) History of non-performing contracts:

Tenderer and each member of JV incase the Tenderer is a JV, shall demonstrate that Non-performance of a contract did not occur because of the default of the Tenderer, or the member of a JV in the last three (3) *years*. The required information shall be furnished in the appropriate form.

## b) Pending Litigation

Financial position and prospective long-term profitability of the Single Tenderer, and in the case the Tenderer is a JV, of each member of the JV, shall remain sound according to criteria established with respect to Financial Capability under Paragraph (i) above if all pending litigation will be resolved against the Tenderer. Tenderer shall provide information on pending litigations in the appropriate form.

#### c) Litigation History

There shall be no consistent history of court/arbitral award decisions against the Tenderer, in the last <u>Three (3) years.</u> All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the years specified. A consistent history of awards against the Tenderer or any member of a JV may result in rejection of the tender.

# 6. QUALIFICATION FORMSUMMARY – BIDDERS TO USE THE CRITERIA GIVEN IN NO.2

<b>I</b> 1	12	13	14	15
Item No.	Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
<b>I</b> 1	INationality	I Nationality in accordance with ITT3.6	FormsELI-1.1and1.2, with attachments	
2	Tax Obligations for Kenyan Tenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by Kenya Revenue Authority in accordance with ITT 3.14.	Attachment	
13	IConflict of Interest	INoconflictsofinterestinaccordancewithITT3.3	Form of Tender	
4	PPRA Eligibility	Not having been declared ineligible by the PPRA as described in ITT 3.7	Form of Tender	
Js	IState-owned Enterprise	IMeetsconditionsofITT3.8	FormsELI-1.1and1.2, with attachments	
6	Goods, equipment and services to be supplied under the contract	To have their origin in any country that is not determined ineligible under ITT 4.1	Forms ELI - 1.1 and 1.2, with attachments	
7	History of Non- Performing Contracts	Non-performance of a contract did not occur as a result of contractor default since 1 <sup>st</sup> January 2022.	Form CON-2	
8	Suspension Based on Execution of Tender/Proposal Securing Declaration by the Procuring Entity	Not under suspension based on-execution of a Tender/Proposal Securing Declaration pursuant to ITT 19.9	Form of Tender	
9	Pending Litigation	Tender's financial position and prospective long-term profitability still sound according to criteria established in 3.1 and assuming that all pending litigation will NOT be resolved against the Tenderer.	FormCON-2	
10	Litigation History	No consistent history of court/arbitral award decisions against the Tenderer since 1st January 2022.	Form CON-2	

I<sub>1</sub> 12 13 14 15

Item N	o. Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
.11 I	Financial Capabilities  I	(i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as Kenya Shillings 60,000,000.00 equivalent for the subject contract(s) net of the Tenderer's other commitments.	Form FIN - 3.1, with attachments	
		(ii) The Tenderers shall also demonstrate, to the satisfaction of the Procuring Entity, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.		
		(iii) The audited balance sheets or, if not required by the laws of the Tenderer's country, other financial statements acceptable to the Procuring Entity, for the last 3 years shall be submitted and must demonstrate the current soundness of the Tenderer's financial position and indicate its prospective long-term profitability.		
12	AverageAnnual Construction Turnover	Minimum average annual construction turnover of Kenya Shillings 400,000,000.00, equivalent calculated as total certified payments received for contracts in progress and/or completed within the last 4 years, divided by 4 years	Form FIN - 3.2	
13	General Construction Experience	Experience under construction contracts in the role of prime contractor for at least the last 4 years, starting 1 <sup>st</sup> January 2021}.	4. Form EXP - 4.1 Experience	

Item No.	Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
14	Specific Construction & Contract Management Experience	A minimum number of 3 similar contracts specified below that have been satisfactorily and substantially completed or 70% Certified Payment complete as a prime contractor between 1st January 2021 and date of this tender i.e. Three (3) contracts, each of minimum value Kenya shillings 400,000,000.00 or equivalent.	Form EXP. 42(a)	
		[In case the Works are to be tender as individual contracts under multiple contract procedure, the minimum number of contracts required for purposes of evaluating qualification shall be selected from the options mentioned in ITT 35.4}		
		The similarity of the contracts shall be based on the following:		
		1. New pavement construction.		
		2. Cement stabilized gravel layers		
		3. Asphalt concrete works.		

#### **SECTION IV - TENDERING FORMS**

#### **QUALIFICATION FORMS**

- 1. FOREIGN TENDERERS 40% RULE.
- 2. TENDERER'S ELIGIBILITY- CONFIDENTIAL BUSINESS QUESTIONNAIRE
- 3. Form EQU: EQUIPMENT.
- 4. FORM PER -1.
- 5. FORM PER-2.
- 6. TENDERERS QUALIFICATION WITHOUT PRE-QUALIFICATION.
  - 6.1 FORM ELI-1.1.
  - 6.2 FORM ELI-1.2.
  - 6.3 FORM CON 2.
  - 6.4 FORM FIN –3.1.
  - 6.5 FORM FIN -3.2.
  - 6.6 FORM FIN –3.3.
  - 6.7 FORM FIN –3.4.
  - 6.8 FORM EXP -4.1.
  - 6.9 FORM EXP 4.2(a).
  - 6.9 FORM EXP 4.2 (a) (cont.).
  - 6.10 FORM EXP -4.2 (b).

#### **OTHER FORMS**

- 7. FORM OFTENDER.
- 8. FORM OF TENDER SECURITY DEMAND BANKGUARANTEE.
- 9. FORM OF TENDER SECURITY (TENDERBOND).
- 10. FORM OF TENDER-SECURINGDECLARATION.
- 11. APPENDIX TO TENDER.

#### TECHNICAL PROPOSAL FORMS

Site Organization.

Method Statement.

Mobilization Schedule.

Construction Schedule.

### QUALIFICATION FORMS

### 1. FOREIGN TENDERERS 40% RULE

Pursuant to ITT 3.9, a foreign tenderer must complete this form to demonstrate that the tender fulfils this condition.

ITEM	Description of Work Item	Describe location of Source	COST in K. shillings	Comments, if any
A	Local Labor			·
1				
2				
3				
4				
5				
В				
1				
2				
3				
4				
5				
C	Local materials			
1				
2				
3				
4				
5				
D				
1				
2				
3				
4				
5				
Е		•		
1				
2				
3				
4				
5				
6				
	TOTAL COST LOCAL CON	ΓENT	XXXXX	
	PERCENTAGE OF CONTRA	CT PRICE	xxxx	

### 3. FORM EQU: EQUIPMENT

The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer.

Item of equipm	ent			
Equipment information	Name of manufacturer	Model and power rating		
	Capacity	Year of manufacture		
Current status	Current location			
	Details of current commitments			
Source	Indicate source of the equipment  ☐Owned ☐Rented ☐Lea	sed		
Owner	Name of owner			
	Address of owner			
	Telephone	Contact name and title		
	Fax	Telex		
Agreements	Details of rental / lease / manufacture agreements specific to the project			

#### **4. FORM PER-1**

## Contractor's Representative and Key Personnel Schedule

Tenderers should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

### **Contractor' Representative and Key Personnel.**

1.	<b>Title of position:</b> Contractor's Representative				
	Name of candidate:				
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]			
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]			
	Expected time schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]			
2.	Title of position: /	<i>J</i>			
	Name of candidate:				
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]			
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]			
	Expected time schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]			
3.	Title of position: []				
	Name of candidate:				
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]			
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]			
	Expected time schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]			

4.	Titleofposition:/			
	Name of candidate:			
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]		
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]		
	Expected time schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]		
5.	Title of position: [insert title]			
	Name of candidate			
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]		
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]		
	Expected time schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]		

### 5. **FORM PER-2:**

Resume and Declaration - Contractor's Representative and Key Personnel.

Name of Tenderer						
Position [#1]: [ <i>t</i>	Position [#1]: [title of position from Form PER-1]					
Personnel information	Name: Date of birth:					
	Address:	E-mail:				
	Professional qualifications:					
	-					
	Academic qualifications:					
	Language proficiency: [language and levels of speaking, reading and writing skills]					
Details						
	Address of Procuring Entity:					
	Telephone: Contact (manager / personnel officer):					
	Fax:					
	Jobtitle:	Years with present Procuring Entity:				

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
[main project details]	[role and responsibilities on the project]	[time in role]	[describe the experience relevant to this position]

#### **DECLARATION**

I, the under signed [insert either "Contractor's Representative" or "Key Personnel" as applicable], certify that to the Lowest of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitment	Details
Commitment to duration of contract:	[insert period (start and end dates) for which this
	Contractor's Representative or Key Personnel is available
	to work on this contract]
Time commitment:	[insert period (start and end dates) for which this
	Contractor's Representative or Key Personnel is available
	to work on this contract]

I understand that any misrepresentation or omission in this Form may:

- a) be taken into consideration during Tender evaluation;
- b) result in my disqualification from participating in the Tender;

Name of Contractor's Representative or Key Personnel: [insert name]

c) result in my dismissal from the contract.

1		•	L	_
Signature:				
Date: (day month year):				
Countersignature of authoriz	zed representa	tive of the Te	enderer:	
Signature:				
Date: (day month year):				

### 6. TENDERERS QUALIFICATION WITHOUT PRE-QUALIFICATION

To establish its qualifications to perform the contract in accordance with Section III, Evaluation and Qualification Criteria the Tenderer shall provide the information requested in the corresponding Information Sheets included hereunder.

#### 61 FORM ELI-

1.1 Tenderer Information
Form
Date:
ITT No. and title:
Tenderer's name
In case of Joint Venture (JV), name of each member:
Tenderer's actual or intended country of registration:
[icate country of Constitution]
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information
Name:
Address:
Telephone/Faxnumbers:
E-mailaddress:
<ul> <li>1.Attached are copies of original documents of</li> <li>☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITT 3.6</li> <li>☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.5</li> <li>☐ In case of state-owned enterprise or institution, in accordance with ITT 3.8, documents establishing:</li> <li>•</li> </ul>
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

### **FORM ELI-1.2**

## Tenderer's JV Information Form (to be completed for each member of Tenderer's JV)

Date:	
ITT No. and title:	
Tenderer's JV name:	
JV member's name:	
JV member's country of registration:	
JV member's year of constitution:	
JV member's legal address in country of constitution:	
JV member's authorized representative information Name: Address: Telephone/Fax numbers: E-mail address:	
1. Attached are copies of original documents of     □Articles of Incorporation (or equivalent documents of constitution or associated documents of the legal entity named above, in accordance with ITT 43.6.     □ In case of a state-owned enterprise or institution, documents establishing legal operation in accordance with commercial law, and that they are not under the superity, in accordance with ITT 3.8.  2. Included are the organizational chart, a list of Board of Directors, and the benefits the superior of the su	on), and/or registration  I and financial autonomy, pervision of the Procuring

### **63 FORM CON – 2**

### Historical Contract Non-Performance, Pending Litigation and Litigation History

Tenderer's	Name:		<u> </u>
			<u> </u>
ITT No. aı	nd title:		_
Non-Pe	rformed Contracts in	n accordance with Section III, Evaluation and Qualification C	 Criteria
□Contr	act non-performance	e did not occur since 1 <sup>st</sup> January [insert year] specified in Section Criteria, Sub-Factor 2.1.	
	act(s) not performed fication Criteria, req	d since 1 <sup>st</sup> January [insert year] specified in Section III, Evaluation uirement 2.1	ation and
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)
[insert year]	[insert amount and percentage]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country] Reason(s) for nonperformance: [indicate main reason(s)]	[insert amount]
Pending	Litigation, in accord	ance with Section III, Evaluation and Qualification Criteria	
□No pe		ecordance with Section III, Evaluation and Qualification Cri	teria, Sub-
	ng litigation in accordicated below.	dance with Section III, Evaluation and Qualification Criteria,	Sub-Factor 2.3

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
		Contract Identification:  Name of Procuring Entity:  Address of Procuring Entity:  Matter in dispute:  Party who initiated the dispute:  Status of dispute:	
		Contract Identification: Name of Procuring Entity: Address of Procuring Entity: Matter in dispute: Party who initiated the dispute: Status of dispute:	

I Litigation History in accordance with Section III, Evaluation and Qualification Criteria

- No Litigation History in accordance with Section Ill, Evaluation and Qualification Criteria, Sub- Factor 2.4.
- D Litigation History in accordance with Section III, Evaluation and Qualification Criteria,

[insert year}	[insert percentage]	Contract Identification: [indicate complete contract name, number, and any other identification]	[insert amount]
		Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country]	
		Matter in dispute: [indicate main issues in dispute]	
		Party who initiated the dispute: [indicate	
		"Procuring Entity" or "Contractor"}	
		Reason(s) for Litigation and award	
		decision	
		[indicate main reason(s)]	

### 64 FORM FIN -3.1:

### **Financial Situation and Performance**

Tenderer's Name:	
Date:	
JV Member's Name_	
ITT No. and title:	•

### 6.4.1. Financial Data

Type of Financial information in	Historic information for previous — — — years, — —				
(currency)	(amount in currency, currency, exchange rate*, USD equivalen				
	Year 1	Year 2	Year 3	Year 4	Year 5
Statement of Financial Position (	Information fr	om Balance Sl	neet)	1	
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statem	ent	.I.		1	
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information			<u> </u>		<u> </u>
Cash Flow from Operating Activities					

<sup>\*</sup>Refer to ITT 15 for the exchange rate

#### 6.4.2 Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	Amount (Kenya Shilling equivalent)
1		
2		
3		

643	Finor	saial	door	iments
D4.1	rınar	ıcıaı	aocu	ıments

- a) reflect the financial situation of the Tenderer or incase of JV member, and not an affiliated entity (such as parent company or group member).
- b) be independently audited or certified in accordance with local legislation.
- c) be complete, including all notes to the financial statements.
- d) correspond to accounting periods already completed and audited.

Attached are copies of financial statements 1 for	r the	years required above; and	complying with the
requirements			

#### 6.5 FORM FIN – 3.2:

### **Average Annual Construction Turnover**

Tenderer's Name:		
Date:		
JV Member's Name		
ITT No and title:		

Annual tui	over data (construction only)	Annual turnover data (construction only)			
<b>Amount Currency</b>	Exchange rate	Kenya Shilling equivalent			
[insert amount and indiccurrency]	ite				
	Amount Currency [insert amount and indica	Amount Currency Exchange rate [insert amount and indicate]			

<sup>\*</sup> See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.

If the most recent set of financial statements is for a period earlier than 12 months from the date of Tender, the reason for this should be justified.

#### 6.6 FORM FIN -3.3:

#### **Financial Resources**

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contractor contracts as specified in Section III, Evaluation and Qualification Criteria.

Fina	Financial Resources		
No.	Source of financing	Amount (Kenya Shilling equivalent)	
1			
2			
3			

#### **6.7 FORMFIN-3.4:**

#### **Current Contract Commitments / Works in Progress**

Tenderers and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Cur	Current Contract Commitments				
No.	Name of Contract	Procuring Entity's Contact Address, Tel,	Valueof Outstanding Work [Current Kenya Shilling /month Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Kenya Shilling /month)]
1					
2					
3					
4					
5					

### **6.8 FORM EXP -4.1**

### **General Construction Experience**

Tenderer's Name:	
Date:	
JV Member's Name:	
ITT No. and title:	

Starting Year	Ending Year	Contract Identification	Roleof Tenderer
		Contract name:	
		Contract name:  Brief Description of the Works performed by the Tenderer:  Amount of contract:  Name of Procuring Entity:  Address:	
		Contract name:  Brief Description of the Works performed by the Tenderer:  Amountofcontract:  Nameof ProcuringEntity:  Address:	

### 6.9 FORM EXP -4.2(a)

### **Specific Construction and Contract Management Experience**

Tenderer's Name:				
Date:				
ITT No. and title:				
Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor □	Member in JV □	Management Contractor	Sub- contractor
Total Contract Amount		1	KenyaShilling	<b>'</b>
If member in a JV or sub-contractor, specify participation in total Contract amount				
Procuring Entity's Name:			·	
Address: Telephone/fax number E-mail:				
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:				
1. Amount				
2.Physical size of required works items				
3.Complexity				
4.Methods/Technology				
5.Construction rate for key activities				
6.Other Characteristics				

### 6.10 FORM EXP -4.2(b)

### **Construction Experience in Key Activities**

Fenderer's Name:					
Date:					
Tenderer's JV Member Name:					
Sub-contractor's Name <sup>2</sup> (as perITT34):					
TT No. and title:					
All Sub-contractors for key activities must	complete the inf	forma	ation in this	form as per IT	T 34 and Section
Evaluation and Qualification Criteria, Sub-				•	
I Van Astinita Na One					
. Key Activity No One: _					
	Information	1			
Contract Identification					
Award date					
Completion date					
Role in Contract	Prime	Mei	mber in	Management	Sub-contractor
	Contractor JV			Contractor	
Total Contract Amount				Kenya Shillin	ng
Quantity (Volume, number or rate of	Total quantity	in	Percentage		Actual
production, as applicable) performed	the contract		participation		Quantity
under the contract per year or part of the	(i)		(ii)		Performed
year					(i) x (ii)
Yearl					
Year 2					
Year 3					
Year 4					
Procuring Entity's Name:			ı		1

 $<sup>\</sup>overline{^2}$ If applicable

Address: Telephone/fax number E-mail:	Information
Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:	

2 Activity No. Two 3.....

#### **OTHER FORMS**

#### 7. FORM OF TENDER

#### INSTRUCTIONS TO TENDERERS

- *The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.*
- *ii)* All italicized text is to help Tenderer in preparing this form.
- *Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION OF THE TENDERER attached to this Form of Tender.*
- iv) The Form of Tender shall include the following Forms duly completed and signed by the Tenderer.
  - Tenderer's Eligibility-Confidential Business Questionnaire.
  - Certificate of Independent Tender Determination.
  - Self-Declaration of the Tenderer.

#### **Date of this Tender submission:**

## Request for Tender No.: [KAA/OT/NAROK/0105/2024-2025] Name and description of Tender [PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP]

To: [Kenya Airports Authority] Dear Sirs,

•	In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct and complete the Works and remedy any defects therein for the sum of Kenya Shillings [[Amount in figures] Kenya Shillings [amount in words]
	The above amount includes foreign currency amount (s) of [state figure or a percentage and currency] [figures]  [words]
	The percentage or amount quoted above does not include provisional sums, and only allows not more than two foreign currencies.

- 2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Particular Conditions of Contract.
- 3. We agree to adhere by this tender until <u>one hundred and eighty six (186) days from the date of tender opening</u> and shall remain binding upon us and may be accepted at any time before that date.
- 4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us. We further understand that you are not bound to accept the lowest or any tender you may receive.
- 5. We, the undersigned, further declare that:
  - i) <u>No reservations</u>: We have examined and have no reservations to the tender document, including Addenda issued in accordance with ITT 8;
  - ii) <u>Eligibility</u>: We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;
  - iii) <u>Tender-Securing Declaration</u>: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;

- (iv) <u>Conformity</u>: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: [insert a brief description of the Works];
- (v) <u>Tender Price:</u> The total price of our Tender, excluding any discounts offered in item 1 above is: [Insert one of the options below as appropriate]
- (vi) Total price is: [insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies]; Or
- vii) <u>Discounts:</u> The discounts offered and the methodology for their application are:
- viii) The discounts offered are: [Specify in detail each discount offered.]
- ix) The exact method of calculations to determine the net price after application of discounts is shown below: [Specify in detail the method that shall be used to apply the discounts];
- x) <u>Tender Validity Period</u>: Our Tender shall be valid for the period specified in TDS 18.1 (186 days) from the date fixed for the Tender submission deadline specified in TDS 22.1(as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- xi) <u>Performance Security:</u> If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;
- xii) <u>One Tender Per Tender</u>: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a subcontractor, and meet the requirements of ITT3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xiii) <u>Suspension and Debarment</u>: We, along with any of our subcontractors, suppliers, Engineer, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xiv) <u>State-owned enterprise or institution: [select the appropriate option and delete the other] [We are not a state-owned enterprise or institution]/[We are a state-owned enterprise or institution but meet the requirements of ITT 3.7];</u>
- xv) <u>Commissions, gratuities, fees</u>: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

- xvi) <u>Binding Contract</u>: We understand that this Tender, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- xvii) <u>Not Bound to Accept</u>: We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other. Tender that you may receive;
- xviii) <u>Fraud and Corruption:</u> We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption;
- xix) <u>Collusive practices</u>: We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the "Certificate of Independent Tender Determination" attached below.
- we undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from \_\_\_\_\_\_\_(specify website) during the procurement process and the execution of any resulting contract.
- xxi) We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:
  - a) Tenderer's Eligibility; Confidential Business Questionnaire to establish we are not in any conflict to interest.
  - b) Certificate of Independent Tender Determination to declare that we completed the tender without colluding with other tenderers.
  - c) Self-Declaration of the Tenderer– to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
  - d) Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal.

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in "Appendix 1- Fraud and Corruption" attached to the Form of Tender.

Name of the Tenderer: \*[insert complete name of person signing the

*Tender*]

Name of the person duly authorized to sign the Tender on behalf of the Tenderer: \*\*[insert complete name of person duly authorized to sign the Tender]

**Title of the person signing the Tender**: [insert complete title of the person signing the Tender]

**Signature of the person named above**: [insert signature of person whose name and capacity are shown

above]	Date signed	Linsert date	of signing	day of [	[insert month],	[insert year]	

Date signed	day of ,

#### **Notes**

<sup>\*</sup> In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer

<sup>\*\*</sup> Person signing the Tender shall have the power of attorney given by the Tenderer to be attached with the Tender,

### (This appendix forms part of the Tender)

CONDITIONS OF CONTRACT	AMOUNT
Tender Security	Kshs. 7,000,000/=
Amount of Performance Security (Unconditional Bank Guarantee)	10 percent of Tender Sum
Revised Program of works to be submitted	Not later than 28 days after issuance of Order to Commence
Cash flow estimate to be submitted	Not later than 28 days after issuance of Order to Commence
Breakdown of costs for all unit rates in the contract.	Not later than 28 days after issuance of Order to Commence
Minimum amount of Third Party Insurance	2% of the Contract Sum
Period for commencement, from the Engineer's order to commence	28 days
Time for completion	Twelve (15) Months
Amount of liquidated damages	Kshs. 100,000/= per day
Limit of liquidated damages	10% of Contract Value
Defect Liability period	12 Months
Percentage of Retention	10% of Interim Payment
	Certificate
Limit of Retention Money	10% of Contract Price
Minimum amount of interim certificates	Kshs.25,000,000.00
Time within which payment to be made after Interim Payment Certificate signed by Engineer	30 days
Appointer of Arbitrator	Chief Justice of The Republic of Kenya
Notice to Employer and Engineer	The Employers address is: Kenya Airports Authority, P.O. Box 19001 – 00501, Nairobi  The Engineer's address is: General Manager (P&ES), Kenya Airports Authority, P.O. Box 19001 – 00501, Nairobi

Signature of Bidder	Date
(Affix stamp)	

### A. TENDERER'S ELIGIBILITY-CONFIDENTIAL BUSINESS QUESTIONNAIRE

#### **Instruction to Tenderer**

Tender is instructed to complete the particulars required in this Form, *one form for each entity if Tender is a JV*. Tenderer is further reminded that it is an offence to give false information on this Form.

#### i) Tenderer's details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	Kenya Airports Authority
2	Reference Number of the Tender	KAA/OT/NAROK/0105/2024-2025
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contact Details of the Tenderer.	1.Country 2. City 3.Location Building 4. 5.Floor 6. Postal Address
		7. Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	
7	Name, country and full address (postal and physical addresses, email, and telephone number) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock exchange, give name and full address (postal and physical addresses, email, and telephone number) of state which stock exchange	

<u>Gen</u>	<u>eral</u>	and Specific Details					
ii)	So	ole Proprietor, provide the follow	ving det	ails.			
Name	e in f	fullty		Age			<u> </u>
Citiz	ensh	ipi		Country of Origin_			<del></del>
							<del></del>
111	) Pa	artnership, provide the following	g details	•			
		Names of Partners		Nationality	Citi	zenship	% Shares owned
	1						
	2						
	3						
( <del>*</del> )	Do	cistored Company provide the	f <sub>2</sub> 11 <sub>23</sub> vin	~ Jatoila			
(iv)	`	<b>gistered Company,</b> provide the f					
	i)	Private or public Company					
	ii)	State the nominal and issued ca	•				
		Nominal Kenya Shillings (Equ					
		Issued Kenya Shillings (Equiva	alent)				
	iii)	Give details of Directors as fol	lows.				
		Names of Director		Nationality	Citi	zenship	% Shares owned
	1						
	2						
	3						
(v)	DIS	SCLOSURE OF INTEREST- In	nterest (	of the Firm in the	Procuring	g Entity.	
	i)	Are there any person/persons in or relationship in this firm? Yes			of Procui	ring Entity) wl	ho has/have an interes
	If y	ves, provide details as follows.					
		Names of Person		Designation in Procuring Entit		Interest or Tenderer	r Relationship with
	1						
	_					1	

### ii) Conflict of interest disclosure

	Type of Conflict	Disclosure YES ORNO	If YES provide details of the relationship with Tenderer
1	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer.		

Tenderer has the same legal

rep	resentative as another tenderer	
4	Tender has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.	
5	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.	
6	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract specified in this Tender Document.	
7	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract.	
8	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the such Contract.	
9	Has the conflict stemming from such relationship stated in item 7 and 8 above been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.	

### (vi) Certification

On behalf of the Tenderer, I certify that the of submission.	information given above is complete, current and accurate as at the date
Full Name	Title or Designation
(Signature)	(Date)

#### B. CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, tł	ie un	dersigned, in submitting the accompanying Letter	of Tender to the Kenya Airports Authority
			[Name of Procuring Entity] for:
KA	A/O	T/NAROK/0105/2024-2025-PROPOSED RUNV	VAY CONSTRUCTION WORKS AT AIRSTRIP
			[Name and number of tender] in
		e to the request for tenders made by:	
her	eby r	make the following statements that I certify to be tr	ue and complete in every respect:
I ce	rtify	, on behalf of	[Name of Tenderer] that:
1.	I h	ave read and I understand the contents of this Certi	ficate;
2.		nderstand that the Tender will be disqualified if this spect;	s Certificate is found not to be true and complete in every
3.		m the authorized representative of the Tenderer winder on behalf of the Tenderer;	th authority to sign this Certificate, and to submit the
4.		r the purposes of this Certificate and the Tender, I ulividual or organization, other than the Tenderer, w	nderstand that the word "competitor" shall include any hether or not affiliated with the Tenderer, who:
	a)	has been requested to submit a Tender in respons	e to this request for tenders;
	b)	could potentially submit a tender in response to tabilities or experience;	his request for tenders, based on their qualifications,
5.	The	e Tenderer discloses that [check one of the followi The Tenderer has arrived at the Tender independ	ng, as applicable]: ently from, and without consultation, communication,

6. In particular, without limiting the generality of paragraphs (5) (a) or (5) (b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

for, such consultations, communications, agreements or arrangements;

- a) prices;
- b) methods, factors or formulas used to calculate prices;

agreement or arrangement with, any competitor;

- c) the intention or decision to submit, or not to submit, a tender; or
- d) the submission of a tender which does not meet the specifications of the request for Tenders; except as specifically disclosed pursuant to paragraph (5) (b) above;

b) The Tenderer has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for tenders, and the Tenderer discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons

- 7. In addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the works or services to which this request for tenders relates, except as specifically authorized by the procuring authority or as specifically disclosed pursuant to paragraph (5) (b) above;
- 8. The terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the Contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph (5) (b) above.

Name	
Title	
Date	
	[Name, title and signature of authorized agent of Tenderer and Date]

### **SELF-DECLARATION FORMS**

#### FORM SD1

## SELF DECLARATION THAT THE PERSON/TENDERER IS NOT DEBARRED IN THE MATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015.

	in the		being a resident of do hereby make a statement as
1.	KAA/OT/NAROK/0105/2024-20: AT NAROK AIRSTRIP	(insert name of the Compan 25for – PROPOSED RUN (insert tender title/deso	y) who is a Bidder in respect of Tender No. WAY CONSTRUCTION WORKS
2.	THAT the aforesaid Bidder, its Dir procurement proceeding under Par		been debarred from participating in
3.	THAT what is deponed to herein al	pove is true to the best of my know	ledge, information and belief.
	(Title)	(Signature)	(Date)
	Bidder Official Stamp		

### FORM SD2

# SELF DECLARATION THAT THE TENDERER WILL NOT ENGAGE IN ANY CORRUPT OR FRAUDULENT PRACTICE

_	bublic ofdo hereby make a statement as follows: -	in the
1.	THAT I am the Chief Executive/Managing Director/Principal Officer/Director of	UCTION a Airports
2	THAT the aforesaid Bidder, its servants and/or agents /subcontractors will not engage in any c fraudulent practice and has not been requested to pay any inducement to any member of the Management, Staff and/or employees and/or agents ofKenya Airports Authority	ne Board,
3.	THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement member of the Board, Management, Staff and/or employees and/or agents ofKenya Authority	
4.	THAT the aforesaid Bidder will not engage/has not engaged in any corrosive practice with other bidd participating in the subject tender	ders
5.	THAT what is deponed to herein above is true to the best of my knowledge, information and belief.	
	(Title) (Signature) (Date)	

Bidder's Official Stamp

### DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I
Procurement & Asset Disposal Act, 2015, Regulations and the Code of Ethics for persons participating in Public Procurement and Asset Disposal and my responsibilities under the Code.
I do hereby commit to abide by the provisions of the Code of Ethics for persons participating in Public Procurement and Asset Disposal.
Name of Authorized signatory
Sign
Position
Office address
(Company Seal/Rubber Stamp where applicable) Witness
Name
Sign
Date

#### D. APPENDIX 1-FRAUD AND CORRUPTION

(Appendix 1 shall not be modified)

#### 1. Purpose

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act (no. 33 of 2015) and its Regulation, and any other Kenya's Acts or Regulations related to Fraud and Corruption, and similar offences, shall apply with respect to Public Procurement Processes and Contracts that are governed by the laws of Kenya.

#### 2. Requirements

- 2.1 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.
- 22 Kenya's public procurement and asset disposal act (*no. 33 of 2015*) under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior:
  - 1) a person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or asset disposal proceeding;
  - 2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
  - 3) Without limiting the generality of the subsection (1) and (2), the person shall be
    - a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
    - b) if a contract has already been entered into with the person, the contract shall be voidable;
  - 4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
  - 5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement
    - a) shall not take part in the procurement proceedings;
    - b) shall not, after a procurement contract has been entered into, take part in any decision relating to the procurement or contract; and
    - c) shall not be a subcontractor for the bidder to whom was awarded contract, or a member of the group of bidders to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
  - 6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;
  - 7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5) (a) and the contract is awarded to the person or his relative or to another person in whom one of them had a director indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.
- 2.3 In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:
  - i) Defines broadly, for the purposes of the above provisions, the terms set forth below as follows: "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

- ii) "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
- iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v) "obstructive practice" is:
  - deliberately destroying, falsifying, altering, or concealing of evidence material to theinvestigation
    or making false statements to investigators in order to materially impede investigation by Public
    Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by
    Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice;
    and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge
    of matters relevant to the investigation or from pursuing the investigation; or
  - acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.
- b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:
  - "fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal process or the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.
- c) Rejects a proposal for award of a contract if PPRA determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- d) Pursuant to the Kenya's above stated Acts and Regulations, may sanction or recommend to appropriate authority(ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
- e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring (i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect<sup>2</sup> all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the PPRA or any other appropriate authority appointed by Government of Kenya; and
- f) Pursuant to Section 62 of the above Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a "Self-Declaration Form" as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have not engaged/will not engage in any corrupt or fraudulent practices.

<sup>1</sup> For the avoidance of doubt, a party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and tendering, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

<sup>&</sup>lt;sup>2</sup> Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Investigating Authority or persons appointed by the Procuring Entity to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraudand Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

### 2. FORM OF TENDER SECURITY-DEMAND BANK GUARANTEE

Ben	neficiary:	
Req	quest for Tenders No:	
Date	te:	
TEN	NDER GUARANTEE No.:	
Gua	arantor:	
1.	We have been informed that(herein after submitted or will submit to the Beneficiary its Tender (herein after calledunder Request for Tenders No("the ITT")	er called "the Applicant") has "the Tender") for the execution of ").
2.	Furthermore, we understand that, according to the Beneficiary's condition. Tender guarantee.	ns, Tenders must be supported by a
3.	At the request of the Applicant, we, as Guarantor, hereby irrevocably under or sums not exceeding in total an amount of() up complying demand, supported by the Beneficiary's statement, whether in the document accompanying or identifying the demand, stating that either the	oon receipt by us of the Beneficiary's ne demand itself or a separate signed
	a) Has withdrawn its Tender during the period of Tender validity set for ("the Tender Validity Period"), or any extension there to provided by	
	b) Having been notified of the acceptance of its Tender by the Beneficial or any extension thereto provided by the Applicant, (i) has failed to (ii) has failed to furnish the Performance.	
4.	This guarantee will expire: (a) if the Applicant is the successful Tendere contract agreement signed by the Applicant and the Performance Security successful Tenderer, upon the earlier of (i) our receipt of a copy of the Bene of the results of the Tendering process; or(ii)twenty-eight days after the error.	and, or (b) if the Applicant is not the ficiary's notification to the Applicant
5.	Consequently, any demand for payment under this guarantee must be re above on or before that date.	ceived by us at the office indicated
	[signature(s)]	

## $\textbf{3.} \quad \textbf{FORM OF TENDER SECURITY (TENDER BOND)} \ \textit{[The Surety shall fill in Property of the Surety Shall fill in Property of the Surety Shall fill in Property of the Surety Shall fill in the$

this T	Tender Bond Form in accordance with the instructions indicated.] BOND NO
1.	BY THIS BOND [name of tenderer] as Principal (herein after called "the Principal"), and [name, legal title and address of surety], authorized to transact business in [name of country of Purchaser], as Surety (herein
	after called "the Surety"), are held and firmly bound unto [name of Purchaser] as Obligee (herein after called
	"the Purchaser") in the sum of I amount of Royal I amount in words I for the payment of which sum well an

1.	and address of surety], authorized to after called "the Surety"), are held and "the Purchaser") in the sum of [amou	as Principal (herein after called "the Principal"), and [name, legal title, transact business in [name of country of Purchaser], as Surety (herein d firmly bound unto [name of Purchaser] as Obligee (herein after called nt of Bond] [amount in words], for the payment of which sum, well and pal and Surety, bind ourselves, our successors and assigns, jointly and
2.		ted or will submit a written Tender to the Purchaser dated the
3.	NOW, THEREFORE, THE CONDIT	ION OF THIS OBLIGATION is such that if the Principal:
(a)	Has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender (Tender Validity Period"), or any extension thereto provided by the Principal; or	
(b)	extension thereto provided by the Pri	e of its Tender by the Purchaser during the Tender Validity Period or any ncipal; (i) failed to execute the Contract agreement; or (ii) has failed to accordance with the Instructions to tenderers ("ITT") of the Purchaser's
	Purchaser's first written demand, with	iately pay to the Purchaser up to the above amount upon receipt of the tout the Purchaser having to substantiate its demand, provided that in its at the demand arises from the occurrence of any of the above events, ed.
4.		gation will remain in full force and effect upto and including the date 30 are Tender Validity Period set forth in the Principal's Letter of Tender or Principal.
5.	IN TESTIMONY WHEREOF, the Pri respective names this day of	incipal and the Surety have caused these presents to be executed in their21.
Princ	eipal:	
	Corporate Seal (where appropriate)	Surety:
(Signature) (Printed name and title)		(Signature) (Printed name and title)

<sup>&</sup>lt;sup>5</sup>The amount of the Bond shall be denominated in the currency Kenya shillings or the equivalent amount in a freely convertible currency.

### 4. FORM OF TENDER-SECURING DECLARATION

<ul> <li>I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.</li> <li>I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:</li> <li>a) our receipt of a copy of your notification of the name of the successful Tenderer; or</li> <li>b) thirty days after the expiration of our Tender.</li> </ul>	[Th	e Bidder shall complete this Form in accordance with the instructions indicated]
To:	Dat	e:[insert date (as day, month and year) of Tender Submission]
Purchaser] I/We, the undersigned, declare that:  1. I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.  2. I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.  3. I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:  a) our receipt of a copy of your notification of the name of the successful Tenderer; or  b) thirty days after the expiration of our Tender.  4. I/We understand that if I am/we are/in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.  Signed:  Capacity / title (director or partner or sole proprietor, etc.)  Name:  Duly authorized to sign the bid for and on behalf of: [insert complete name of Insert date of Inser	Ten	der No.:
<ol> <li>I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.</li> <li>I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we-(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.</li> <li>I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:         <ul> <li>a) our receipt of a copy of your notification of the name of the successful Tenderer; or</li> <li>b) thirty days after the expiration of our Tender.</li> </ul> </li> <li>I/We understand that if I am/we are/in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.</li> <li>Signed:</li></ol>	To:	[insert complete name of
2 I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders. 3. I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of: <ul> <li>a) our receipt of a copy of your notification of the name of the successful Tenderer; or</li> <li>b) thirty days after the expiration of our Tender.</li> </ul> 4. I/We understand that if I am/we are/in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent. Signed: Capacity / title (director or partner or sole proprietor, etc.) Name: Duly authorized to sign the bid for and on behalf of: [insert complete name of Tenderer] Dated on day of [Insert date of	Pur	chaser] I/We, the undersigned, declare that:
Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.  3. I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:  a) our receipt of a copy of your notification of the name of the successful Tenderer; or  b) thirty days after the expiration of our Tender.  4. I/We understand that if I am/we are/in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.  Signed:  Capacity / title (director or partner or sole proprietor, etc.)  Name:  Duly authorized to sign the bid for and on behalf of: [insert complete name of Insert date o	1.	I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.
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a) our receipt of a copy of your notification of the name of the successful Tenderer; or b) thirty days after the expiration of our Tender.  4. I/We understand that if I am/we are/in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.  Signed:  Capacity / title (director or partner or sole proprietor, etc.)  Name:  Duly authorized to sign the bid for and on behalf of: [insert complete name of Tenderer] Dated on	3.	
the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.  Signed:  Capacity / title (director or partner or sole proprietor, etc.)  Name:  Duly authorized to sign the bid for and on behalf of: [insert complete name of Tenderer] Dated on		a) our receipt of a copy of your notification of the name of the successful Tenderer; or
Capacity / title (director or partner or sole proprietor, etc.)	4.	the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of
Name:  Duly authorized to sign the bid for and on behalf of: [insert complete name of Tenderer] Dated on		Signed:
Duly authorized to sign the bid for and on behalf of: [insert complete name of Tenderer] Dated on		Capacity / title (director or partner or sole proprietor, etc.)
Tenderer] Dated on		Name:
		Duly authorized to sign the bid for and on behalf of: [insert complete name of
signing]		Tenderer] Dated on
		signing]
Seal or stamp		Seal or stamp

# 5. Appendix to Tender

# **Schedule of Currency requirements**

Summary of currencies of the Tender for	[insert name of Section of the Works]
Name of currency	Amounts payable
Local currency:	
Foreign currency #1:	
Foreign currency #2:	
Foreign currency #3:	
Provisional sums expressed in local currency	[To be entered by the Procuring Entity]

## 6. TECHNICAL PROPOSAL

The tender shall complete these sections as a Technical proposal to indicate how he/she intends to proceed with the works. The Procuring entity will review these Proposals and determine the extent to which they meet the required standards to complete the works.

# 6.1 Site Organization

[insert Site Organization information]

## **62** Method Statement

[insert Method Statement]

## **63** Mobilization Schedule

[insert Mobilization Schedule]

## **64** Construction Schedule

[insert Construction Schedule]



## **SECTION V - BILLS OF QUANTITIES**

## **SCOPE OF WORKS**

The Procuring Entity will prepare this

part. Notes for Preparing a Bills of

**Ouantities** 

These Notes for Preparing Bills of Quantities are intended only as information for the Procuring Entity or the person drafting the tendering documents. They should not be included in the final documents.

## 1. Objectives

- 1.1 The objectives of the Bills of Quantities are:
- (a) to provide sufficient information on the quantities of Works to be performed to enable tenders to be prepared efficiently and accurately; and
- (b) when a contract has been entered into, to provide a priced Bills of Quantities for use in the periodic valuation of Works executed.
- 1.2. In order to attain these objectives, Works should be itemized in the Bills of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bills of Quantities should be as simple and brief as possible.

#### 2. Content

The Bills of Quantities should be divided generally into the following sections:

- a) Preamble;
- b) Work Items (grouped into parts);
- c) Day work Schedule; and
- d) Summary.

#### 3. Preamble

The Preamble should indicate the inclusiveness of the unit prices, and should state the methods of measurement that have been adopted in the preparation of the Bills of Quantities and that are to be used for the measurement of any part of the Works.

### 4. Rock

Where excavation, boring, or drilling is included in the Works, a comprehensive definition of rock (always a contentious topic in contract administration), should be provided in the Technical Specification and this definition should be used for the purposes of measurement and payment.

## 5. Work Items

The items in the Bill of Quantities should be grouped into sections to distinguish between those parts of the Works that by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, phasing of the Works, or considerations of cost. General items common to all parts of the Works may be grouped as a separate section in the Bills of Quantities. When a family of Price Adjustment Formulae are used, they should relate to appropriate sections in the Bills of Quantities.

#### 6. Quantities

Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no allowance should be made for bulking, shrinkage, or waste. Quantities should be rounded up or down where appropriate and spurious accuracy should be avoided.

#### 7. Units of Measurement

The following units of measurement and abbreviations are recommended for use (unless other national units are mandatory in the country of the Procuring Entity).

Unit	Abbreviation	Unit	Abbreviation
cubicmeter	m <sup>3</sup> orcum	millimeter	mm
hectare	ha	month	mon
hour	h	number	nr
kilogram	kg	square meter	m <sup>2</sup> or sq m
lump sum	sum	square millimeter	mm <sup>2</sup> or sq mm
meter	m	week	wk
metric ton	t		
(1,000  kg)			

#### 8. Ground and Excavation Levels

The commencing surface should be identified in the description of each item for work involving excavation, boring, or driving, for which the commencing surface is not also the original surface. The excavated surface should be identified in the description of each item for work involving excavation for which the excavated surface is not also the final surface. The depths of work should be measured from the commencing surface to the excavated surface, as defined.

#### 9. Day work Schedule

A Day work Schedule should be included if the probability of unforeseen work, outside the items included in the Bills of Quantities, is relatively high. To facilitate checking by the Procuring Entity of the realism of rates quoted by the Tenderers, the Day work Schedule should normally comprise:

- a) a list of the various classes of labor, materials, and Contractor's Equipment for which basic Day work rates or prices are to be inserted by the Tenderer, together with a statement of the conditions under which the Contractor will be paid for work executed on a Day work basis; and
- b) a percentage to be entered by the Tenderer against each basic Daywork Subtotal amount for labor, materials, and Plant representing the Contractor's profit, overheads, supervision, and other charges.

### 10. Provisional Quantities and Sums

- 10.1 Provision for quantity contingencies in any particular item or class of work with a high expectation of quantity overrun should be made by entering specific "Provisional Quantities" or "Provisional Items" in the Bills of Quantities, and *not* by increasing the quantities for that item or class of work beyond those of the work normally expected to be required. To the extent not covered above, a general provision for physical contingencies (quantity overruns) should be made by including a "Provisional Sum" in the Summary of the Bills of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a "Provisional Sum" in the Summary of the Bills of Quantities. The inclusion of such Provisional Sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises.
- 10.2 The estimated cost of specialized work to be carried out, or of special goods to be supplied, by a Nominated Subcontractor should be specified in the relevant part of the Bills of Quantities as a particular Provisional Sum with an appropriate brief description. A separate tendering procedure is normally carried out by the Procuring Entity to select the specialists, who are then nominated as subcontractors to the main or prime contractor. To provide an element of competition among the main Tenderers (or prime contractors) in respect of any facilities, amenities, attendance, etc., to be provided by the successful Tenderer as prime contractor for the use and convenience of the specialist or nominated subcontractor, each related Provisional Sum should be following by an item in the Bills of Quantities inviting a percentage (to be quoted by the main Tenderer) payable on the actual expenditure from the Provisional Sum.

#### 11. Summary

The Summary should contain a tabulation of the separate parts of the Bills of Quantities carried forward, with provisional sums for Daywork, for physical (quantity) contingencies, and for price contingencies (upward price

adjustment) where applicable.

## 12 Sample Bills of Quantities

#### A. Preamble

- 1. The Bills of Quantities shall be read in conjunction with the Instructions to Tenderers, General and Particular Conditions of Contract, Technical Specifications, and Drawings.
- 2 The quantities given in the Bills of Quantities are estimated and provisional, and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tender in the priced Bills of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
- 3. The rates and prices tender in the priced Bills of Quantities shall, except in so far as it is otherwise provided under the Contract, include all Constructional Plant, labor, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 4. A rate or price shall be entered against each item in the priced Bills of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bills of Quantities.
- 5. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bills of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
- 6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bills of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bills of Quantities.
- 7. Provisional Sums included and so designated in the Bills of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.5 and Clause 13.6 of the General Conditions.
- 8. The method of measurement of completed work for payment shall be in accordance with [insert the name of a standard reference guide, or full details of the methods to be used] 6.

#### **B.** Work Items

BILL 22

**DAYWORKS** 

1. The Bills of Quantities usually contains the following part Bills, which have been grouped according to the nature or timing of the work:

according (	to the nature of thining of the work.
BILL 1	GENERAL: Office administration and overheads/Preliminaries
BILL 4	SITE CLEARANCE AND TOP SOIL STRIPPING
BILL 5	EARTHWORKS
BILL 7	EXCAVATION AND FILLING OF STRUCTURES
BILL 8	CULVERT AND DRAINAGE WORKS
BILL 10	GRADING AND GRAVELLING WORK
BILL 12	NATURAL MATERIAL SUB-BASE AND BASE
BILL 14	CEMENT AND LIME TREATED SUBGRADE, SUBBASE AND BASE
BILL 15	BITUMINOUS SURFACE TREATMENT AND SURFACE DRESSING
BILL 16	BITUMINOUS MIXES
BILL 20	RUNWAY FURNITURE
BILL 21	BOUNDARY PERIMETER FENCING

The method of measurement should be spelled out precisely in the Preamble to the Bills of Quantities, describing for example the allowances (if any) for timbering in excavation, etc. Many national standard reference guides have been prepared on the subject, and one such guide is the Standard Method of Measurement of the

2. If TDS-ITT 15.1 (a) applies, Tenderers shall price the Bills of Quantities in local currency only and shall indicate in the Appendix to Tender the percentage expected for payment in foreign currency or currencies. If TDS-ITT 15.1 (b) applies Tenderers shall price the Bills of Quantities in the applicable currency or currencies.

[Note to the Procuring Entity: The tables in BOQ must be prepared in accordance with the currency alternative retained in TDS – ITT 15.1.]

# BILLS OF QUANTITIES

PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP						
TENDER N	NO. KAA/OT/NAROK/0105/2024-2025					
BILL NO	DESCRIPTION	AMOUNT KSHS.				
1	GENERAL					
4	SITE CLEARANCE AND TOPSOIL STRIPPING					
5	EARTHWORKS					
7	EXCAVATION AND FILLING OF STRUCTURES					
8	CULVERTS AND DRAINAGE WORKS					
10	GRADING AND GRAVELLING WORK					
12	NATURAL MATERIAL SUBBASE AND BASE					
14	CEMENT AND LIME TREATED SUBGRADE, SUBBASE & BASE.					
15	BITUMINOUS SURFACE TREATMENTS AND SURFACE DRESSING					
16	BITUMINOUS MIXES					
20	RUNWAY FURNITURE					
21	BOUNDARY PERIMETER FENCING					
22	DAY WORKS					
A	SUB TOTAL 1					
(a)	Add 5% of Sub-Total 1 of Bills as Provisional Sums for Contingencies to be expended in the whole or part or deleted as directed by the Engineer					
В	SUB TOTAL 2 (A+a)					
С	ADD 16% OF SUB-TOTAL B FOR VALUE ADDED TAX (VAT)					
D	TOTAL COST CARRIED FORWARD TO FORM OF BID (B+C)					

	R NO. KAA/OT/NAROK/0105/2024-2025 O. 1 : GENERAL				
ILL N	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
	Note: the following items for housing, offices and labor	ratory for the	e Engineer shall		
	providing and maintaining such buildings, including the				
	Office for the Engineer				
1.01	Provide and maintain Engineer's Representative's main office including furnishing the office as per the attached <b>Appendix to Bill no. 1.01</b> (All furniture to revert to the	Lumpsum	1		
	Contractor at the end of the Contract)  Provide and Maintain Laboratory for the Engineer				
1.02	Provide and maintain laboratory for use by the Resident	Lumpsum	1		
1.02	Engineer and his staff for the entire duration of the contract.	Zampsam	1		
1.03	Provide Laboratory equipment and reagents use by the Engineer's Representative for the duration of the contract as per the attached <b>Appendix</b> , <b>Bill no 1.03</b> (All Laboratory equipment to revert to the Employer at the end of the Contract)  Quality Control and Material Testing	Lumpsum	1		
1.04	Allow a Prime Cost (PC Sum) of KShs;1,200,000/=for	PC	1		
1.01	the cost of performing Geotechnical Investigation as required		1		
1.05	Include percentage of P.C Sum in item 1.04 for contractor's overheads and profit.	%	1		
1.06	Allow a Prime Cost (PC Sum) for Quality Control material testing including provision for training materials Engineers, technicians/Technologists and support staff services by MTRD of the Ministry of Roads and Transport.	PC	1		
1.07	Include percentage of P.C Sum in item 1.06 for contractor's overheads and profit.	%	1		
	Provide and maintain Survey Equipment	I _			
1.08	Provide and maintain survey equipment for use by the Engineer's representative for the entire duration of the contract as per the attached <b>Appendix</b> , <b>Bill 1.08</b> (All Survey equipment to revert to the Contractor at the end of the Contract)	Lumpsum	1		
	Vehicle for the Engineer				
1.09	Provide driver, fuel, service, maintain and insure 1No.clean 4WD double Cab pick-up vehicle, diesel engine capacity 2500-3000cc with not more than 30,000Km odometer reading, registered in Kenya not earlier than January 2025 for exclusive use of the Engineer inclusive of the first 5,000 km per vehicle month to Engineer's approval. Vehicle to revert back to the contractor.	V.mth	18		
1.10	E.O item 1.09 for total aggregated mileage in excess of	Km	50,000		
	5,000 km per vehicle month.  Miscellaneous Account for Engineer				
1.11	Allow Prime Cost Sum ( P.C. Sum ) of Kshs. 3,000,000 for the Resident Engineer's Miscellaneous account to be spent in whole or part as directed by the Resident Engineer against receipts	P.C. Sum	1		
1.12	E.O. item 1.11 for the contractor's overheads and profit	%			

ENDE	R NO. KAA/OT/NAROK/0105/2024-2025				
BILL NO	O. 1 : GENERAL				
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
1.13	Allow Provisional sum amounting to Kshs.4,915,800/= as Daily Substance Allowance (DSA), fuel and miscellaneous to be expended in whole or part whose rates are to be determined by the Employer.	P.C. Sum	1		
1.14	E.O. item 1.13 for the contractor's overheads and profit	%			
	Attendance to the Engineer				
1.15	Allow Provisional sum amounting to Kshs.16,940,000 for wages and allowances of a site supervisor and Engineers Site staff including overtime whose employment shall be determined by the Employer.	P.C. Sum	1		
1.16	E.O. item 1.15 for the contractor's overheads and profit	%			
	Training				
1.17	Allow a Prime Cost Sum (P.C. Sum) of KShs.3,500,000 for training of KAA staff on site for professional registration, attachees, interns and general training	P.C. Sum	1		
1.18	E.O. item 1.17 for Contractor's overheads and profits.	%			
	VIP Latrine				
1.19	Allow a Prime cost sum of Kshs .1,500,000/= for the construction of 1No. Twin-door Ventilated Improved Pit (VIP) latrine block with urinal as per the Architectural drawings to the satisfaction of the Engineer.	PC Sum	1		
1.20	E.O item 1.19 for the contractor overheads and profits	%			
	Relocation of Services				
1.21	Allow Prime Cost Sum (P.C. Sum) for removal and alteration of services inclusive of liaison with the appropriate bodies in accordance with Specifications. Such services include water, power lines, telecommunication cables, etc.	PC Sum	1		
1.22	E.O item 1.21 for the contractor overheads and profits	%			

PROJ	PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP					
TENI	TENDER NO. KAA/OT/NAROK/0105/2024-2025					
BILL	BILL NO. 4: SITE CLEARANCE AND TOPSOIL STRIPPING					
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)	
	Site clearance					

4.01	Clear site including removal of hedges, bushes, trees	Ha	27	
	including uprooting of trees stumps (except those			
	designated to remain by the engineer) and other vegetation			
	and objectionable materials in accordance with the			
	specifications and backfill to 95 % MDD (AASHTO T99)			
	with approved material of holes left by removal of stumps			
	and roots as directed by the Engineer.			
	Removal of topsoil			
4.02	Removal of unsuitable material / topsoil to a maximum	$m^3$		
	depth of 200 mm deep or as directed by the Engineer and		53,602	
	dispose-off to a site approved by NEMA and County			
	Government.			
	Removal/ Cutting of trees			
4.03	Removal/ cutting of tall trees in the runway approaches	No.		
	including uprooting of tree stumps diameter >450mm		30	
	TOTAL OF BILL No.4 CARRIED FORWARD TO SUN	MARY		

TENI	DER NO. KAA/OT/NAROK/0105/2024-2025				
BILL	NO. 5: EARTHWORKS				
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
	Note: No separate payment shall be made for the overhaul included in the rates and/or prices inserted	of materi	al and the cost of	such haulage	e shall be
	Excavation				
5.01	Cut to spoil expansive materials to a depth not exceeding 1.2m under the runway, taxiway, and apron areas and cart away and dispose- off to a site approved by NEMA and County Government.	m <sup>3</sup>	73,291		
5.02	Cut to spoil expansive material not exceeding 1.5m to achieve the recommended side slope of 2.5% to drain stormwater from the runway edge to the side drain as directed by the Engineer.	m <sup>3</sup>	135,000		
5.03	Extra over item 5.01&5.02 for hard material.	m <sup>3</sup>	18,323		
	Rock Fill				
5.04	Provide, lay and compact in 200mm layers rockfill including filling of voids with stone dust (or equivalent) for areas under the runway, apron, and taxiway as directed by Engineer.	m <sup>3</sup>	36,646		
	Earthwork Fill				
5.05	Compact bottom of cut to 150mm to 95% MDD (AASHTO T99)	m <sup>3</sup>	9,161		
5.06	Provide and place improved subgrade material CBR>20 Compacted to 100% MDD(AASHTO T99) in layers of 150mm to the satisfaction of the Engineer.	m <sup>3</sup>	18,422		
	Pest Control	2			
5.07	Destroy termite colonies and treat existing ground with METRO 200SC (or equivalent approved termicide), after dilution (1:800) at the rate of 5 liters per square metre or any other equal and approved insecticide treatment. application to be undertaken by a person registered with Pest Control Products Board (PCBP) and approved by the Engineer. and subject to a Ten (10) Year Guarantee Certificate endosed by the manufacturer.	m <sup>2</sup>	64,283		

PROJ	PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP					
TENI	DER NO. KAA/OT/NAROK/0105/2024-2025					
BILL	NO. 7: EXCAVATION AND FILLING OF STRUCTURES					
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)	
	Note: No separate payment shall be made for the overhaul o included in the rates and/or prices inserted	f material a	and the cost of su	ich haulage sha	all be	
7.01	Excavation in soft material for major structures i.e. culverts and gabions.	m <sup>3</sup>	250			
7.02	Extra over item 7.01 but in hard material.	m <sup>3</sup>	50			
7.03	Provide and place macaferri or equivalent gabion boxes and mattresses as specified.	m <sup>2</sup>	165			
7.04	Provide and place rock fill to gabions.	m <sup>3</sup>	30			
7.05	Provide stone pitching including cement grouting as directed by the Engineer.	m <sup>2</sup>	1,200			
	TOTAL OF BILL No.7 CARRIED FORWARD TO SUMM	ARY				

TENI	DER NO. KAA/OT/NAROK/0105/2024-2025						
BILL	NO. 8: CULVERTS AND DRAINAGE WORKS						
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)		
	Note: No separate payments shall be made for gravel for blinding or hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices						
8.01	Excavate for V-shaped in section stormwater open drain n.e 1.5m deep and average 2500mm wide inclusive of trimming embarkments to slope and cart away	m <sup>3</sup>	8,925				
8.02	Excavate for inlet, outfall, mitre and catch water drains in soft material.	m <sup>3</sup>	450				
8.03	Extra over items 8.01 & 8.02 for excavation in hard material.	$m^3$	180				
8.04	Approved crushed rock fill in subsoil drains and rockfill under culverts	m <sup>3</sup>	100				
8.05	Provide, lay and joint single 900 mm inner diameter (ID) precast concrete pipes including bed, surround and haunches.	LM	40				
8.06	As item 8.05 but 600mm inner diameter (ID) precast concrete pipes	LM	80				
8.07	Provide and place class 20/20 reinforced concrete to headwalls, wing walls, aprons, to pipe culverts including formwork and reinforcement.	m <sup>3</sup>	85				
8.08	Provide and fix steel fabric reinforcement to BS 4483 size A142 where directed by the Engineer.	$m^2$	220				

PROJI	ECT: PROPOSED RUNWAY CONSTRUCTION WORKS A	ΓNAROK	AIRSTRIP		
TEND	ER NO. KAA/OT/NAROK/0105/2024-2025				
BILL	NO. 10: GRADING AND GRAVELLING WORK				
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
	Note: No separate payments shall be made for gravel for blin materials and the cost of such shall be included in the rates a		auling to spoil ur	suitable exca	vation
	Rehabilitation of existing gravel access road to the airstrip:	Rates to in	clude cost of rein	statement of	the same.
	Grading and Gravelling Works				
10.01	Heavy grading, spot gravelling with watering of the 7.0m access roads to the satisfaction of the Engineer and as per the specifications.	m <sup>2</sup>	3,000		
	TOTAL OF BILL No.10 CARRIED FORWARD TO SUMM	IARY			

PROJEC	PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP						
TENDE	ΓENDER NO. KAA/OT/NAROK/0105/2024-2025						
BILL NO	O. 12: NATURAL MATERIAL BASE AND SUB-BASE						
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)		
	No overhaul will be paid for separately under this item and the cost of hauling will be deemed to have been included in the rates. The rates inserted shall include all items as listed in method-A of measurement in the standard specifications. After treatment the material shall have a CBR of at least 160% measured after 7-day cure and 7-day soak on the site mix compacted to at least 95% MDD (AASHTO T180) and the treated material shall have a Plasticity Index less than 6% and a Plasticity Modulus less than 250.(As specified in Clause 12.03 of the Standard Specification for Road and Bridge Construction 1986)						
	Material for selected base and subbase						
12.01	Provide, place, spread and compact natural gravel minimum soak 4 days CBR >30% at 95% MDD (AASHTO T180) compaction for Subbase.	M³	9,211				
12.02	Provide, place, spread and compact natural gravel minimum soak 4 days CBR >80% at 95% MDD (AASHTO T180) compaction for Base	M³	9,211				
	TOTAL OF BILL No.12 CARRIED FORWARD TO SUN	MMARY					

PROJECT	PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP							
TENDER	TENDER NO. KAA/OT/NAROK/0105/2024-2025							
BILL NO.14: CEMENT AND LIME TREATED SUBGRADE, SUBBASE& BASE.								
SNo.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT			
14.01	Provide, transport to site, store and spread Ordinary Portland Cement to gravel material for Base or as specified and as instructed by the Engineer at 30- 60 kg/m3 at the point of works including all handlings. (Mixing to be done using a Pulve mixer)	Tonne	520					
14.02	Allow for mixing in cement and/or lime into natural gravel.	m <sup>3</sup>	8,663					
14.03	Allow for curing and protection of treated layers as specified	m <sup>2</sup>	56,584					
TOTAL C	OF BILL No.14 CARRIED FORWARD TO SUMMAR	Y SHEET	Γ					

# PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP

TENDER NO. KAA/OT/NAROK/0105/2024-2025

# BILL NO. 15: BITUMINOUS SURFACE TREATMENTS AND SURFACE DRESSING

	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
	Prime Coat MC-30				
15.01	Prepare surface, provide, heat and spray MC-30 cutback bitumen as prime coat to Runway, Taxiways, Apron and Accesses; all in accordance with the specifications and as directed by the Engineer. (0.8 - 1.2 l/m²)	Litre	56,584	200	
	Tack Coat KI - 60				
15.02	Provide & spray cationic emulsion K1-60 as tack coat on runway, taxiway and apron surfaces at a rate of 0.3-0.8 l/m <sup>2</sup>	Litre	45,267	180	
	TOTAL OF BILL No.15 CARRIED FORWARD TO SUN				

TENDER I	TENDER NO. KAA/OT/NAROK/0105/2024-2025							
BILL NO. 16: BITUMINOUS MIXES								
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh			
16.01	Provide, place and compact 30mm asphalt concrete Type 1 (0-14mm) with 5.0-6.5% nominal bitumen content by weight to total mix as Base Course on Runway, Taxiways & Apron as directed by Engineer.	m <sup>3</sup>	1,733					
16.02	Provide, place and compact 30mm asphalt concrete Type 1 (0-14mm) with 5.5-7.0% nominal bitumen content by weight to total mix as Wearing Course on Runway, Taxiways & Apron as directed by Engineer.	m <sup>3</sup>	1,733					
TOTAL O								

TEND	ER NO. KAA/OT/NAROK/0105/2024-2025				
BILL	NO. 20: RUNWAY FURNITURE				
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
	Runway Marking and Runway Signs				
	Runway Marking				
20.01	Prepare surface and paint with approved reflectorized white and yellow road marking paints for pavement marking as directed by the Engineer	No	4,250		
	Project Signboard				
20.02	Provide project signboard being 1200mm x 600mm Gauge 14 (1.99mm thick) mild steel plate welded onto 50mm x 50mm x 3mm square hollow sections frame, 2.5m frame with 0.5m fixed below ground, and painted KAA colours for the duration of the project including the defects liability period	No	1		
	Airport Directional Signs				
20.03	Provide and install Airport directional signs according to the provided details as directed by the Engineer	No	2		
	Windsock				
20.04	Provide and erect Windsock complete with Mast fixed to the ground	No	2		
	Road Kerbs				
20.05	Excavate for, provide & place 250 x 125mm precast concret 15/20 concrete base bedding and mortar joined in support to Engineer.				
	a) Straight kerbs	LM	480		
	b) Kerbs radius 12m - 6m	LM	50		
	c) Ditto but radius 5m - 1m	LM	50		
20.06	As 20.05 but for flush kerbs 100 x 125mm	LM	480		
	TOTAL OF BILL No.20 CARRIED FORWARD TO SU	MMARY			

PROJ	PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP						
TEND	ER NO. KAA/OT/NAROK/0105/2024-2025						
BILL	NO. 21: BOUNDARY PERIMETER FENCING						
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)		
21.01	Excavate holes of 450mm diameter and up to 1000mm deep, and cart away waste material to spoil dumps.	CM	365				
21.02	As item 21.01, but in hard material.	CM	91				
21.03	Provide and install 3.0m minimum overall length and maximum width of 125mm × 125mm reinforced concrete grade B (1:1.5:3 mix) intermediate posts (cranked at the top) at 3.0-meter centre to centre with 7 No. holes for straining wires/barbed wire hook bolts, with Y10 reinforcement, including concreting of the posts holes up to the ground level.	No	1,835				
21.04	As in item 21.03 above but for strainer posts up to 3.0m overall length and maximum width of 200mm, and Y10 reinforcement.	No	85				
21.05	As in item 21.03 but for strainer post struts up to 3.0m overall length and maximum width of 100mm to be placed on either side of strainer posts at 45 degrees to the ground, and Y10 reinforcement.	No	170				
21.06	Provide and fix 3.0 m wide heavy-duty galvanized chainlink; <b>Gauge 10 (3.0 mm diameter)</b> ; 50x50mm mesh onto precast concrete posts (m/s); fastening with 5 No. lines of galvanized wire (m/s); threaded through and including mesh and hook bolts; secured by binding wire; all as per detail drawings.	M	5,500				
21.07	Provide and fix 3 lines of galvanized barbed wire 12 <sup>1/2</sup> gauge (2.5mm diameter) onto the cranked sections of the concrete posts threaded through the holes on the posts.	M	16,500				
21.08	Supply and Install Hot hot-dipped galvanized Ripper Steel Spiral razor wire (CONCERTINA COIL) 2.5 mm dia. High Tensile, blade/strip 0.55mm, clips 2.0mm, diameter 10mm with hot dipped galvanized surface treatment along the inner face of the fence in 3 layers to Engineer's instructions, in concertina coil of loops 250mm long, 300mm diameter. Length to be measured for each coil separately. (COIL TO BE PLACED AT TOP & BOTTOM TO FENCE).	M	16,500				
21.09	Supply, fabricate and install galvanized heavy-duty metal gate overall size 6000 x 2400mm high; in two equal leaves; with and including 100 x 100 x 6mm SHS fixed firmly to the ground in approved concrete base; 8 gauge welded wire mesh covering fixed to 50 x 50 x 4mm SHS and tower locking heavy gauge bolt (including VIRO Cylinder 104); 3 lines of 12.5 gauge barbed wire at the top of each leaf; all as per attached drawings and approval of Project Manager. Gate to be painted in three coats of approved protective paint.	No	3				
21.10	Supply materials, fabricate and install galvanized heavy-duty metal gate overall size 1000 x 2400mm high pedestrian gate with and including 75 x 75 x 4mm SHS fixed firmly to the ground in approved concrete base; 8 gauge welded wire mesh covering fixed to 50 x 50 x 4mm SHS and tower locking heavy gauge bolt (including VIRO Cylinder 104); 3 lines of 12.5 gauge barbed wire at the top; all as per attached drawings and approval of Project Manager. Gate to be painted in three coats of approved protective paint. Rate inclusive of casting of beam.	No	1				

PROJ	PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP						
TEND	TENDER NO. KAA/OT/NAROK/0105/2024-2025						
BILL NO. 21: BOUNDARY PERIMETER FENCING							
	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)		
21.11	Provide well compacted/vibrated concrete class 20/20mm	- (1:2:4 ) as de	escribed in:				
	a)Ground beams	CM	430				
	b)Regulating concrete at steep areas up to 100mm	CM	108				
	c)Regulating concrete at steep areas up to 200mm	CM	143				
	TOTAL OF BILL No.21. CARRIED FORWARD TO S						

PROJEC	T: PROPOSED RUNWAY CONSTRUCTION WORKS	AT NAROK	AIRSTRIP	
TENDE	R NO. KAA/OT/NAROK/0105/2024-2025			
BILL NO	D.22: DAYWORKS (RATES ONLY)			
LABOUI	R			
	for labour must be priced. Only the actual time engaged upon ide all costs of labour as well as overtime, travelling, time and			
	naintenance of small tools of trade, supervision, insurance, over		ts and any other o	cost allowance.
22.01	Unskilled Labour	Hrs	120	
22.02	Carpenter/ stone mason	Hrs	120	
22.03	Blaster (or certified explosives handler)	Hrs	120	
22.04	Artisan	Hrs	120	
22.05	Watchman (all round surveillance)	Hrs	120	
22.06	Senior Foreman having Higher National Diploma (HND) and at least 10 years experience	Hrs	120	
22.07	Foreman having Ordinary Diploma (OD) and at least 5 years experience	Hrs	120	
22.08	Senior Surveyor having Higher National Diploma (HND) and at least 10 years experience	Hrs	120	
22.09	Surveyor having Ordinary Diploma (OD) and at least 5 years experience	Hrs	120	
22.10	Graduate Engineer	Hrs	120	
22.11	Registered Engineer	Hrs	120	
MATER	IALS			
	ials should comply with the specifications. The rates inserted	herein are to	include for delive	ry to site, storage, handling
overheads 22.12	ordinary Portland Cement	Tonne		
		Tonne	10	
22.13	Hydrated Lime	Tonne	1	
22.14	Aggregates for Concrete a) Sand	m <sup>3</sup>		
	b) Coarse aggregate (12mm)	m <sup>3</sup>	1	
	c) Coarse aggregate (20mm)	m <sup>3</sup>	1	
22.15	Shuttering Timber		1	
<u></u> ,1J	Class F1 finish	m <sup>2</sup>	1	
	Class F3 finish	m <sup>2</sup>	1	
22.16	Mild Steel		1	
	a) Up to and including 16mm diameter	Tonne	1	
	b) Over 16mm diameter size	Tonne	1	
22.17	High Yield Steel		1	
	a) Up to and including 16mm diameter	Tonne	1	
22.18	Bitumen		1	

	T: PROPOSED RUNWAY CONSTRUCTION WORKS			
TENDER	R NO. KAA/OT/NAROK/0105/2024-2025			
BILL NO	D.22: DAYWORKS (RATES ONLY)			
	a) 80/100 Penetration Grade Bitumen	Litre	1	
	b) MC 30 Cutback Bitumen	Litre	1	
	c) MC 3000 Cutback Bitumen	Litre	1	
	d) K 1-70 Bitumen Emulsion	Litre	1	
	e) Kerosine	Litre	1	
22.19	Asphalt Concrete Type 1			
	a) 0/14mm grading	m <sup>3</sup>	1	
	b) 0/20mm grading	m <sup>3</sup>	1	
22.20	Class 2-3 Chippings for Bituminous Surface Dressing			
	a) 0/6 mm (quarry dust)	$m^3$		
	b) 6/10mm	m <sup>3</sup>	1	
	c) 10/14mm	m <sup>3</sup>	1	
	d) 14/20mm	$m^3$	1	
22.21	Approved quarry waste	Tonne	1	
	1		1	
22.22	Hard-core	Tonne	1	
22.23	Building Stone	Tonne	1	
22.24	Gravel			
	a) Natural Base Standard Gravel (Minimum CBR-80%)	m <sup>3</sup>	1	
	b) Natural Sub-Base Standard Gravel (Minimum CBR-30%)	m <sup>3</sup>	1	
	c) Natural Gravel for shoulders (Minimum CBR- 20%)	$m^3$	1	
22.26	Gabion Mesh (2.0x1.0x1.0)m	m <sup>2</sup>	1	
22.27	Rock fill to Gabions	m <sup>3</sup>	1	
22.28	Barbed Wire heavy gauze	Roll	1	
22.29	Nails (All sizes)	Kg	1	
22.30	Cedar post 100mm diameter by 1000mm long	No.	1	
22.31	Provide, lay and joint 300x150mm half-battered kerbs to raised footpaths	m	1	
22.32	Provide, lay and joint 125x100mm channel blocks to raised footpaths	m	1	
	PLANT & EQUIPMENT	1	-	

Where items of major plant listed in the schedule of Day works are specified by type (e.g. Cat D7, Cat 120H) the power rating of such plant is that manufactured within the two years prior to the date of tender. Any plant employed upon day works which have power rating lower that that stated above shall be paid for at rates lower than those schedule of day works. The deduction in the payable rates shall be in proportion to the power rating below the specified above plant.

PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP						
TENDER NO. KAA/OT/NAROK/0105/2024-2025						
BILL NO	D.22: DAYWORKS (RATES ONLY)					
22.33	Cat D6 bull dozer or equivalent with Dozer/ Ripper attachment.	Hr	1			
22.34	Cat 140H motor grader or equivalent complete with scarifier.	Hr	1			
22.35	Vibrating roller (10 tonnes).	Hr	1			
22.36	Hand propelled vibrating roller.	Hr	1			
22.37	Hand held Lawn mower	Hr	1			
22.38	Cat 950G wheel loader or equivalent.	Hr	1			
22.39	15 tonne tipper lorry.	Hr	1			
22.40	10 tonne tipper lorry.	Hr	1			
22.41	50 mm Delivery water pump and motor.	Hr	1			
22.42	Concrete mixer 0.3 - 0.7 m <sup>3</sup> /min.	Hr	1			
22.43	15 tonne pneumatic self-propelled roller.	Hrs	1			
22.44	As item 22.43 but 10 tonnes.	Hrs	1			
22.45	16-18 tonnes smooth wheel roller.	Hrs				
22.46	As item 22.45 but 12 tonne.	Hrs	1			
22.47	As item 22.45 but 10 tonne.	Hrs				
22.48	One ton hand-propelled vibrating roller.	Hrs	1			
22.49	Hand held rammer compactor or equivalent.	Hrs	1			
22.50	1.7m <sup>3</sup> excavator with loader attachments	Hrs	1			
22.51	As item 22.50 but 13m <sup>3</sup>	Hrs	1			
22.52	As item 22.50 but 1.1m <sup>3</sup>	Hrs	1			
22.53	As item 22.50 but 0.6m <sup>3</sup>	Hrs	1			
22.54	A half to one & a half tonne capacity pick-up.	Hrs	1			
22.55	Compressor dia. (250 c.f.m.) complete with all tools, horses, steels etc.	Hrs	1			
22.56	50-75mm delivery water pump and motor.	Hrs				
22.57	Concrete vibrator (poker type).	Hrs	1			
22.58	Self-propelled water tanker 6,000-10,000 litre	Hrs	1			
22.59	minimum capacity with pick-up pump.  Mechanical broom	Hrs	1			
22.60	Pressure bitumen distributor 4500-8000 litres capacity.	Hrs	1			
22.61	As item 22.60 but 3000 litres.	Hrs	1			

PROJECT: PROPOSED RUNWAY CONSTRUCTION WORKS AT NAROK AIRSTRIP						
TENDER NO. KAA/OT/NAROK/0105/2024-2025						
BILL NO.22: DAYWORKS (RATES ONLY)						
22.62	Mechanical chips spreader	Hrs	1			
TOTAL DAYWORKS						

APPENDIX TO BILL ITEM 1.01: PROVIDE, FURNISH AND MAINTAIN THE R.E.'S OFFICE					
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs)	Total Amount (Kshs.)
A101/1.01	Construct and maintain the RE'S office for the entire contract period, rate includes the building, security, water, electricity, gas, cleaning, tea, coffee etc in accordance with the specifications. Measurement and payments to be done in accordance with clause 141(b) of the standard Specs. The Layout drawing for the Site office is as per the standard drawing attached.	Item	1.00		
A101/1.02	3 Drawer steel filing cabinet	No	2.00		

APPENDIX TO BILL ITEM 1.01: PROVIDE, FURNISH AND MAINTAIN THE R.E.'S OFFICE						
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs)	Total Amount (Kshs.)	
A101/1.03	Executive desk 2.2 x 0.9 m with six lockup drawers	No	2.00			
A101/1.04	Standard office desk with three lockup drawers	No	3.00			
A101/1.05	Standard office chairs	No	6.00			
A101/1.06	Bench 3 m long with cushioned backrest (located as directed)	No	1.00			
A101/1.07	Typist's desk	No	1.00			
A101/1.08	Typist's chair	No	1.00			
A101/1.09	Lockable steel stationery cupboard, 1.2 m³, lockable	No				
A101/1.10	Medium size steel filing cabinet, 4 drawers lockable	No	2.00			
A101/1.11	Bookshelf, 1.5 m wide 3 shelves (for box files) sliding glass door	No	2.00			
A101/1.12	Conference table with 12 chairs	No	1.00			
A101/1.13	Curtains for office and laboratory - for all windows and doors	Set	2.00			
A101/1.14	Ceiling fans	No	3.00			
A101/1.15	Air conditioner unit, 12000 BTU/hr	No	1.00			
A101/1.16	Pendant / Battery powered wall clock	No	2.00			
A101/1.17	Dust bins	No	3.00			
A101/1.18	Filing Tray	No	4.00			
A101/1.19	Refrigerator minimum capacity 0.2 m <sup>3</sup>	No	1.00			
A101/1.20	Cupboard, 0.15 m³, lockable	No	1.00			
A101/1.21	Cooker 4 plate electric cooker with oven and grill	No	1.00			
A101/1.22	Intel Pentium i7 laptop computer	No.	2.00			
A101/1.23	Intel Pentium i5 Desktop computer	No.	2.00			
A101/1.24	Digital camera (Equal or greater than 15.2 megapixels)	No.	1.00			
A101/1.25	Uninterruptable high-speed internet supply	Months	18.00			
A101/1.26	Stapling machine Ofrex size 50 or similar with 5000 staples	No.	3.00			
A101/1.27	Ordinary 2-hole paper punch	No.	2.00			
A101/1.28	Heavy duty 2 hole paper punch	No.	2.00			
A101/1.29	Heavy duty punch and spiral binder, IBICO AG or similar approved	No	2.00			
A101/1.30	Reams of A4 photocopying paper	No	100.00			
A101/1.31	Reams of A3 photocopying paper	No	50.00			
A101/1.32	First Aid kit	No.	2.00			

APPENDIX	K TO BILL ITEM 1.01: PROVIDE, FURNISH AND MA	INTAIN THE	R.E.'S OFFIC	CE	
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs)	Total Amount (Kshs.)
A101/1.33	A3 & A4 Multifunction Colour Printer and Photocopier (approved make) with feeder sorting trays, accessories and supplies sufficient to complete the project	No.	1.00		
A101/1.34	UPS 1KVA surge protector	No	3.00		
A101/1.34	Fire Extinguisher	No	2.00		
A101/1.36	2 No Civil 3D (Latest Version) & 1 No. Civil Cad (Latest Version). The quote to include buying of the software and training of the Client Engineer's as will be directed by the Engineer	No.	3.00		
	Total carried Forward to Bill Item 1.01				

APPENDIX TO BILL ITEM 1.03: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY						
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs)	Total Amount (Kshs.)	
				(123113)		
	1. FURNITURE					

#### APPENDIX TO BILL ITEM 1.03: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE **ENGINEER'S LABORATORY** DESCRIPTION UNIT ITEM Rate **Total Amount (Kshs.)** Quantity (Kshs) Meeting table (3.0 x 1.2 m) with 6 A103/1.01 No. 1.00 Ceiling fans A103/1.02 No. 4.00 A103/1.03 Air conditioner unit, 12000 BTU/hr No. 2.00 A103/1.04 Desk 2.2 x 0.9 m with 2 chest of No. drawers 2.00 Office chairs, standard A103/1.05 No 6.00 A103/1.06 Chairs with arms No. 8.00 A103/1.07 Table (1.5 x .75 m) with 2 drawers No. and 2 chairs 1.00 A103/1.08 4-drawer Steel lockable filing cabinet No. 2.00 A103/1.09 Electronic scientific calculator, 12 No. 4.00 figures Fire extinguisher, 10 litre capacity, A103/1.10 No. CO<sub>2</sub> type 2.00 Steel filing cabinet, 4 drawers, A103/1.11 No lockable 1.00 Steel filing cabinet, 2 drawers, A103/1.12 No lockable 1.00 A103/1.13 Book shelf, 3 shelves 1.2 m long (to No. hold box files) 2.00 A103/1.14 First aid kit No. 1.00 A103/1.15 Snake bite kit No. 1.00 A103/1.16 Water filters No. 2.00 2. EQUIPMENT i. General Equipment Compaction mould complete with A103/1.17 No. base plate and extension collar. 101.6 4.00 mm dia x 116.43 mm high A103/1.18 2.5 kg Compaction rammer, drop No. regulated to 304.8 mm 4.00 4.535 kg compaction rammer, drop A103/1.19 No. regulated to 457.2 mm 4.00 Straight edge 300 mm long, with A103/1.20 No. handles 6.00

#### APPENDIX TO BILL ITEM 1.03: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE **ENGINEER'S LABORATORY** DESCRIPTION ITEM UNIT Quantity Rate **Total Amount (Kshs.)** (Kshs) Electric vibrating Kango Hammer A103/1.21 No. fitted with steel tamper (BS 1377) with 1.00 support frame A103/1.22 Steel Tamper (BS 1377) compatible No. with Kango hammer 4.00 A103/1.23 Compaction mould complete with No. base plate and extension collar, 152.4 4.00 mm dia x 16.43 mm high A103/1.24 Galvanized sample tray I x 0.5 x 75 No. mm deep 6.00 A103/1.25 75 mm brush No. 10.00 Semi-automatic Electronic balance, A103/1.26 No. 25 kg capacity accurate to 10g, 1.00 including weights 20 mm BS sieve, 300 mm diameter A103/1.27 No. 2.00 A103/1.28 Stop Clock No. 2.00 A103/1.29 Thermostatically controlled electric No. oven I 04 - 110 °C, capacity 0.225 m' 2.00 A103/1.30 As above but gas heated No. 1.00 A103/1.31 Moisture tin, 90 mm dia x 20 mm No. deep, cadmium plated or aluminium 100.00 A103/1.32 Cone penetrometer with gauge and No. automatically controlled test cup 1.00 A103/1.33 Test gauge No. 1.00 A103/1.34 Penetration test cup No. 2.00 A103/1.35 Penetration test cone No. 3.00 A103/1.36 Glass comparator No. 2.00 A103/1.37 Glass plate No. 2.00 A103/1.38 Evaporating Dish 150mm diax45mm No. 4.00 ii. Density (Sand replacement method BS 1377) A103/1.39 Metal container (450 mm dia.) No. 4.00

Stainless steel tray, 305 mm dia x 50 mm deep	NT.		(Kchc)	
	No.	4.00	(Kshs)	
Metal tray with 150 mm dia hole in centre, 300 x 300mm square or equivalent area, 400 mm deep	No.	3.00		
Metal tray with 200mm dia hole in centre, 500 x 500mm square 50 mm deep	No.	3.00		
Steel pegs for fixing tray in position	No.	20.00		
Sand pouring cylinder, 150 mm dia	No.	5.00		
Sand pouring cylinder, 215 mm dia	No.	5.00		
Cold steel chisel 20 x 300 mm long	No.	6.00		
Cold steel chisel 10 x 250 mm long	No.	6.00		
1.5 kg (2 off), 3.5 kg (2 off) mason hammers and I kg (2 off) rubber mallet	Set	3.00		
Scoop for removing excavated material from hole, 250 mm long handle	No.	10.00		
100 mm brush, soft	No.	4.00		
50 mm brush, soft	No.	6.00		
Primus gas stove	No.	3.00		
Calibration can 150 mm dia x 150 mm deep	No.	4.00		
Ditto item 54/106 but 200 mm dia x 250 mm deep	No.	4.00		
vi. Sieve Analysis (BS 1377)				
Sieve 300 mm dia:75,63,50,37.5,28, 25,19,20,14,12.5,10,9.5,6.3,5,4.75 and 4 mm, plus lid and receiver	Set	3.00		
Sieve 200 mm dia: 2.36.,2,1.18,1,0.6,0.5,0.425,0.300,0.150 and 0.075mm plus lid and receiver	Set	3.00		
Electric Sieve shaker	No.	1.00		
	Steel pegs for fixing tray in position  Sand pouring cylinder, 150 mm dia  Sand pouring cylinder, 215 mm dia  Cold steel chisel 20 x 300 mm long  Cold steel chisel 10 x 250 mm long  1.5 kg (2 off), 3.5 kg (2 off) mason hammers and I kg (2 off) rubber mallet  Scoop for removing excavated material from hole, 250 mm long handle  100 mm brush, soft  Primus gas stove  Calibration can 150 mm dia x 150 mm deep  Ditto item 54/106 but 200 mm dia x 250 mm deep  vi. Sieve Analysis (BS 1377)  Sieve 300 mm dia:75,63,50,37.5,28, 25,19,20,14,12.5,10,9.5,6.3,5,4.75 and 4 mm, plus lid and receiver  Sieve 200 mm dia: 2.36.,2,1.18,1,0.6,0.5,0.425,0.300,0.150 and 0.075mm plus lid and receiver	Steel pegs for fixing tray in position  Sand pouring cylinder, 150 mm dia  No.  Sand pouring cylinder, 215 mm dia  No.  Cold steel chisel 20 x 300 mm long  No.  Cold steel chisel 10 x 250 mm long  No.  1.5 kg (2 off), 3.5 kg (2 off) mason hammers and I kg (2 off) rubber mallet  Scoop for removing excavated material from hole, 250 mm long handle  No.  To mm brush, soft  No.  Primus gas stove  No.  Calibration can 150 mm dia x 150 mm deep  No.  Ditto item 54/106 but 200 mm dia x 250 mm deep  vi. Sieve Analysis (BS 1377)  Sieve 300 mm dia:75,63,50,37.5,28, 25,19,20,14,12.5,10,9.5,6.3,5,4.75 and 4 mm, plus lid and receiver  Sieve 200 mm dia: 2.36,.2,1.18,1,0.6,0.5,0.425,0.300,0.150 and 0.075mm plus lid and receiver  Electric Sieve shaker  No.  No.	Steel pegs for fixing tray in position	Steel pegs for fixing tray in position

	APPENDIX TO BILL ITEM 1.03: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY						
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs)	Total Amount (Kshs.)		
A103/1.59	Riffle box with 50 mm slots	No.	2.00				
	xi. Miscellaneous						
A103/1.60	Gas cylinders 13 kg	No.	2.00				
A103/1.61	Padlocks	No.	6.00				
A103/1.62	Plastic jerry 201 capacity	No.	6.00				
A103/1.63	Paper punch	No.	2.00				
A103/1.64	Stapler with pins	Pkts	10.00				
A103/1.65	Tray lifting callipers	No.	4.00				
A103/1.66	Laboratory dust coats-Brown	No.	10.00				
A103/1.67	Laboratory dust coats-White	No.	10.00				
Total ca	arried Forward to Bill Item 1.03						

APPENDIX TO BILL ITEM 1.08: PROVIDE AND MAINTAIN SURVEY EQUIPMENT  ITEM DESCRIPTION LINIT Quantity Pate (Kebs) Total Amount							
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs)	Total Amount (Kshs.)		
A107/1.01	Engineer's Automatic/dumpy Level with accessories and tripod	No	2.00				
A107/1.02	Total station complete with a Field Data collector Leica, equivalent including accessories and supporting software (I") [plus tripod	No	1.00				
A107/1.03	Survey umbrella	No	3.00				
A107/1.04	Levelling staff 5m, 5 section with levelling bubble	No	6.00				
A107/1.05	3m, 3 section ranging rod	No	10.00				
A107/1.06	Laser distancer	No	2.00				
A107/1.07	Walkie Talkies	No	4.00				
A107/1.08	Prism pole	No	4.00				
A107/1.09	50m fireglass measuring tape	No	5.00				
A107/1.10	7m tape measure	No	5.00				
A107/1.11	Prism pole holder	No	4.00				
A107/1.12	Pangas (16")	No	4.00				
A107/1.13	Drawing office stools	No	4.00				
A107/1.14	Sledge hammer 2kg weight	No	4.00				
A107/1.15	Refrlective road safety vests	No	20.00				
A107/1.16	Rapid charger	No	1.00				
A107/1.17	Spare batteries	No	4.00				
A107/1.18	Optical squares	No	4.00				
A107/1.19	Spirit level for staves	No	4.00				
A107/1.20	Steel hammer (4kg)	No	2.00				
A107/1.21	Tripple prism mount with reflectors	No	3.00				
A107/1.22	Level books (Rise and Fall)	No	50.00				
A107/1.23	RTK GPS set consisting of base+ Rover and accessories (including external radio)	No	1.00				

### C. Schedule of Daywork

## **Rates** [Note to the Procuring

## **Entity:**

- i) A "Daywork Schedule" is commonly found in contracts where the likely incidence of unforeseen work cannot be covered by definitive descriptions and approximate quantities in the Bills of Quantities. The preferred alternative is to value the additional work in accordance with the Conditions of Contract. A Daywork Schedule normally has the disadvantage of not being competitive among Tenderers, who may therefore load the rates as signed to some or all the items. If a Daywork Schedule is to be included at all in the tendering documents, it is preferable to include nominal quantities against the items most likely to be used, and to carry the sum of the extended amounts forward into the Tender Summary in order to make the basic Schedule of Daywork Rates competitive.
- ii) The total amount assigned to such competitive daywork is normally 3–5 percent of the estimated base Contract Price and is regarded as a Provisional Sum for contingencies to be expended under the direction and at the discretion of the Engineer.]

#### 1. General

Reference should be made to Sub-Clause 13.6 of the General Conditions. Work shall not be executed on a day work basis except by written order of the Engineer. Tenderers shall enter basic rates for day work items in the Schedules, which rates shall apply to any quantity of day work ordered by the Engineer. Nominal quantities have been indicated against each item of daywork, and the extended total for Daywork shall be carried forward as a Provisional Sum to the Summary Total Tender Amount. Unless otherwise adjusted, payments for day work shall be subject to price adjustment in accordance with the provisions in the Conditions of Contract.

## 2. Daywork Labor

- 2.1 In calculating payments due to the Contract or for the execution of day work, the hours for labor will be reckoned from the time of arrival of the labor at the job site to execute the particular item of day work to the timeofreturn to the original place of departure, but excluding meal breaks and rest periods. Only the time of classes of labor directly doing work ordered by the Engineer and for which they are competent to perform will be measured. The time of gangers (charge hands) actually doing work with the gangs will also be measured but not the time of foremen or other supervisory personnel.
- The Contractor shall be entitled to payment in respect of the total time that labor is employed on daywork, calculated at the basic rates entered by the Contractor in the **Schedule of Daywork Rates: 1. Labor,** together with an additional percentage payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
  - a) The basic rates for labor shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labor, transportation time, overtime, subsistence allowances, and any sums paid to or on behalf of such labor for social benefits in accordance with [country of Procuring Entity] law. The basic rates will be payable in local currency only.
  - b) The additional percentage payment to be quoted by the Tenderer and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities, and insurances and allowances to labor, time keeping, and clerical and office work, the use of consumable stores, water, lighting, and power; the use and repair of stagings, scaffolding, workshops, and stores, portable power tools, manual plant, and tools; supervision by the Contractor's staff, foremen, and other supervisory personnel; and charges incidental to the fore going. Payments under this item shall be made in the following currency proportions:

i)	foreign:	percent (to be stated by Tenderer)9.
ii)	local:	percent (to be stated by

#### Tenderer). [Note to the Procuring Entity:

This method of indicating profit and overheads separately facilitates the addition of further items of daywork, if needed, the basic costs of which can then be checked more easily. An alternative is to make Daywork rates all-inclusive of the Contractor's overhead and profit, etc., in which case this paragraph and the relevant Daywork Schedule should be modified accordingly.]

### 3. Daywork Materials

The Contractor shall be entitled to payment in respect of materials used for daywork (except for materials for which the cost is included in the percentage addition to labor costs as detailed hereto fore), at the basic rates entered by the Contractor in the **Schedule of Daywork Rates: 2. Materials,** together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:

- a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the Site.
   The basic rates shall be stated in local currency, but payment will be made in the currency or currencies expended upon presentation of supporting documentation.
- b) the additional percentage payment shall be quoted by the Tenderer and applied to the equivalent local currency payments made under (a) above. Payments under this item will be made in the following currency proportions:
  - i) foreign: \_\_\_\_percent (to be stated by the Tenderer)<sup>10</sup>;
  - ii) local:\_\_\_\_\_percent (to be stated by the Tenderer);
- c) the cost of hauling materials for use on work ordered to be carried out as daywork from the store or stockpile on the Site to the place where it is to be used will be paid in accordance with the terms for Labor and Construction in this schedule.

# 4. Daywork Contractor's Equipment

4.1 The Contractor shall be entitled to payments in respect of Contractor's Equipment already on Site and employed on daywork at the basic rental rates entered by the Contractor in the **Schedule of Daywork Rates: 3. Contractor's Equipment.** Said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity, and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit, and administrative costs related to the use of such equipment.

[Note to the Procuring Entity: This is an example of wording to include overhead and profit, etc., in the daywork rates. A separate percentage addition could be used as for labor and materials.] The cost of drivers, operators, and assistants will be paid for separately as described under the section on Daywork Labor. [Note to the Procuring Entity: An alternative, sometimes adopted for administrative convenience, is to include the cost of drivers, operators, and assistants in the basic rates for Contractor's Equipment. The last sentence of this paragraph 5 should then be modified accordingly.]

- 4.2 In calculating the payment due to the Contractor for Contractor's Equipment employed on daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the traveling time from the part of the Site where the Contractor's Equipment was located when ordered by the Engineer to be employed on daywork and the time for return journey thereto shall be included for payment.
- 43 The basic rental rates for Contractor's Equipment employed on daywork shall be stated in local currency, but payments to the Contractor will be made incurrency proportions, as follows:

1)	foreign:	percent (to be stated by the Tenderer) <sup>11</sup>
ι,	TOTCIZII.	bereent to be stated by the renderer

b)	) local:	percent (to be stated by the Tenderer
$\upsilon$	) iocai.	percent (to be stated by the Tender

<sup>&</sup>lt;sup>9</sup>TheTenderer shall state the percentage in a common foreign currency equivalent required for payment and the exchange rates and official sources used. <sup>10</sup>The Tenderer shall state the percentage in a single foreign currency equivalent and the exchange rates and official sources used.

<sup>&</sup>lt;sup>11</sup>The Tenderer shall state the percentage in a single foreign currency equivalent and the exchange rates and official sources used.

# Schedule of Day work Rates: 1. Labor

Itemno.	Description	Unit	Nominal quantity	Rate	Extended amount
	Subtotal		1 1	1	
	Allow percent <sup>a</sup> of Subtotal for C profit, etc., in accordance with paragra	ontractor's ovenph 3 (b) above	rhead,		
	Total for Daywork:Labor	•	<u>'</u>		
	(carried forward to Daywork Summary	, p)			

a. To be entered by the Tenderer.

# Schedule of Day work Rates: 2. Materials

Itemno.	Description	Unit	Nominal quantity	Rate	Extended amount
	Subtotal			1	
	Allow percent of Subtotal for Contra profit, etc., in accordance with paragraph	ctor's ove l (b) above	rhead,		
	Total for Daywork:Materials	1	_1	1	
	(carried forward to Daywork Summary, p.	)			

a. To be entered by the Tenderer.

# Schedule of Day work Rates: 3. Contractor's Equipment

Itemno.	Description	Nominal quantity (hours)	Basic hourly rental rate	Extended amount
	Allow _ percent <sup>a</sup> of Subtotal for			
	Contractor's overhead, profit, etc., in accordance with paragraph 5 above.			
	Daywork: Contractor's Equipment orward to Daywork Summary, p)			

a. To be entered by the Tenderer.

# **Day works Summary**

	Amount <sup>a</sup>	% Foreign
1.Total for Daywork:Labor		
2.Total for Daywork:Materials		
3.Total for Daywork:Contractor's Equipment		
Total for Daywork (Provisional Sum)		
(carried forward to Tender Summary, p)		

a. The Procuring Entity should insert local currency unit.

# **Summary of Specified Provisional Sums in the Bills of Quantities**

Billno.	Itemno.	Description	Amount
1			
2			
3			
4			
etc.			
		ovisional Sums	
(carried f	orward to Gr	and Summary (B), p)	

# **Grand Summary**

General Summary	Page	Amount
BillNo.1:Genera items		
Bill No. 2: Work items		
Bill No. 2: Work items		
Bill No. 2: Work items		
BillNo.2:Work items,—etc.—		
Subtotal of Bills	(A)	
ADD Total for Daywork (Provisional Sum) *	(B)	
ADD Specified Provisional Sums in their subtotal of bills <sup>ii</sup>	(C)	[sum]
Total of Bills Plus Provisional Sums (A + B + C) <sup>i</sup>	(D)	
Add Provisional Sum for Contingency Allowance (if any) ii	(E)	[sum]
Tender Price (D + E) (Carried forward to Letter of Tender)	(F)	

i) All Provisional Sums are to be expended in whole or in part at the direction and discretion of the Engineer in accordance with +Clause 13.5 of the General Conditions.
ii) To been tered by the ProcuringEntity.
\* For evaluation purposes, Provisional Sum, other than Day work will be excluded.

#### **SECTION VI - SPECIFICATIONS**

[In drafting of the Specification, care must be taken when drafting the Work's Requirements to ensure that the requirements are not restrictive. Recognized international standards should be used as much as possible for the description of goods, materials and workmanship. Where other particular standards are specified, whether national standards or other standards, it should be stated that goods, materials and workmanship meeting other authoritative standards and which promise to ensure equal or higher quality than the standards specified, will also be acceptable. Where a brand name of a productis specified it should always be qualified with the terms "or equivalent".]

#### **Notes for preparing Specifications**

- 1. Specifications must be drafted to present a clear and precise statement of the required standards of materials, and workmanship for tenderers to respond realistically and competitively to the requirements of the Procuring Entity and ensure responsiveness of tenders. The Specifications should require that all materials, plant, and other supplies to be permanently incorporated in the Works be new, unused, of the most recent or current models, and incorporating all recent improvements in design and materials unless provided otherwise in the Contract. Where the Contractor is responsible for the design of any part of the permanent Works, the extent of his obligations must be stated.
- 2. Specifications from previous similar projects are useful and may not be necessary to re-write specifications for every Works Contract.
- 3. There are considerable advantages in standardizing **General Specifications** for repetitive Works in recognized public sectors, such as highways, urban housing, irrigation and water supply. The General Specifications should cover all classes of workmanship, materials and equipment commonly involved in constructions, although not necessarily to be used in a particular works contract. Deletions or addenda should then adapt the General Specifications to the particular Works.
- 4. Care must be taken in drafting Specifications to ensure they are not restrictive. In the Specifications of standards for materials, plant and workmanship, existing Kenya Standards should be used as much as possible, otherwise recognized international standards may also be used.
- 5. The Procuring Entity should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in tender documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential tenderers.
- 6. The Procuring Entity should provide a description of the selected parts of the Works with appropriate reference to Drawings, Specifications, Bills of Quantities, and Design or Performance criteria, stating that the alternative solutions shall be atleast structurally and functionally equivalent to the basic design parameters and Specifications.
- 7. Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details. Technical alternatives permitted in this manner shall be considered by the Procuring Entity each on its own merits and independently of whether the tenderer has priced the item as described in the Procuring Entity's design included with the tender documents.

#### **SECTION V - SPECIFICATIONS**

#### **General Provisions**

The specifications for the works shall be the Ministry of Roads And Public Works Standard Specification For Roads And Bridge Construction (1986) as amended herein by the special specification.

#### Special Specifications.

#### Clause 101: Location of site

The site is located at Narok Airstrip in Narok County. The proposed construction works are within the airside at the Airport, which is a restricted area. However, the Contractor shall provide a gate at the entrance and open up an entrance to the landside to effectively make the site on the landside.

#### Clause 102: Scope of Works:

The works will include but not limited to; -

- (a) Site clearing and topsoil stripping;
- (b) Earthworks;
- (c) Laying of pavement structural layers;
- (d) Laying of asphalt surfacing layer;
- (e) Application of new pavement markings; and
- (f) Fencing.

#### 104 Programme of Execution of the Works

The contractor shall provide the works programme, required under clause 14 of the Conditions of Contract, within 28 days of receipt of the Engineer's Order to commence work. The programme shall be co-ordinated with climatic and other conditions to provide for the completion of the works in the order and by the time specified.

The Contractor shall carry out the contract in accordance with the programme agreed with the Engineer, but he shall in no manner be relieved by the Engineer's approval of the programme, of his obligation to complete the works in the prescribed order and by the prescribed completion date and he shall from time to time review his progress and make such amendments to his rate of execution of the works as may be necessary to fulfil his obligations.

#### 105 Order of Execution of Works

In addition to Clause 105 of the Standard Specification the Contractor shall carry out the Works such that a continuous and consecutive output of fully completed work is achieved.

#### 107 Certificate of Completion

Wherever the "Certificate of completion" and "Period of Maintenance" are stated in the specification, these shall be read respectively as the "Taking Over Certificate" and "Defects Liability Period".

The Taking-Over Certificate for these works shall be issued upon application by the Contractor under Clause 48.2 of the Conditions of Contract on substantial completion of the construction works. The Defect Liability Certificate will be issued after the end of the Defects Liability Period.

Release of Retention Money will be on issuance of the said certificates.

#### 108 Method of construction

Add the following to this clause:

The submissions of work programme, Order of Work and the General Description of works shall be consistent in presentation and content when handed over for the Engineer's approval and in accordance with programmes and schedules as stated in Clause 14.1 of Conditions of Contract.

Notwithstanding any contrary provision contained in the last paragraph of Clause 108 of the Standard Specification, the Engineer's normal working hours shall be defined as 8:00 a.m. to 5:00 p.m. on weekdays, including lunch break from 1.00 p.m. to 2.00 p.m. and 8:00 a.m. to 1:00 p.m. on Saturdays, with Sunday being set aside as a day of rest. If the contractor wishes to execute permanent works outside these hours, he shall request for and obtain written permission from the Engineer at least one full working day in advance to enable the Engineer to make necessary provision for the supervision of such work. The contractor shall meet any costs arising thereof.

#### 109 Notice of Operations

Add the following sub- Clause.

#### **Notification Terms**

It shall be the Contractor's responsibility to notify the Engineer when any item of works scheduled are completed and ready for approval, and the contractor shall give sufficient notice to allow control test to be performed.

#### **Explosives and Blasting**

- a) The requirements of the Laws of Kenya governing explosives and other requirements and regulations of Government of Kenya and other authorities shall be complied with.
- b) No explosives of any kind shall be used without prior written consent of the Engineer.
- c) The Contractor shall be solely responsible for the provision, handling, and storage and transporting of all explosives, ancillary materials and all other items of related kind whatsoever required for blasting.
- d) Before the beginning of the Defects Liability Period the Contractor shall remove all unused explosives from the site on completion of the Works or which are ordered by the Engineer, and submit to the Engineer written confirmation of compliance with the instruction.
- e) The Contractor shall submit to the Engineer monthly returns detailing the quantity of explosives brought to the site together with the quantities used during the month and the location and quantity of rock blasted.

#### Clause 117: Add sub-clause 117

(K) In addition to providing, equipping and maintaining adequate first aid stations throughout the works in accordance with the Laws of Kenya. The Contractor shall allow for this in the rates and be responsible for all site welfare arrangements at his own cost.

Non-interference with Aircraft Movements and Safety Precautions

- i. The contractor shall ensure that neither his own operations, nor those of his Subcontractor(s), and no trespass by his employee shall interfere with the operations of aircraft using the airfield, and shall at all times maintain close liaison with the Designated Safety Officer.
- ii. The contractor shall ensure that the airfield service and emergency roads are maintained in open and serviceable conditions at all times.
- iii. The contractor shall ensure that the works are carried out in such a manner that they do not present hazardous conditions to aircraft.
- iv. The contractor shall allow in his rates for all inconvenience or delay caused by air movements and for all costs which may be carried by him in complying with the requirement for this specification. No claim shall be allowed or delays resulting from abnormal or increased aircraft movements during the contract period.
- v. Flying operations and aircraft ground maneuvering operation will continue throughout the entire period of the contract. The contractor shall comply strictly with all regulations and instructions of Airport Authorities in respect of all or any of the Contractor's operations that may take place upon or in any way affect operations at the airfield as if the said regulations and instructions were of statutory effect in Kenya.
- vi. The contractor shall be responsible for ascertaining the nature and effect of all such regulations and instructions and shall be deemed at all times to have full knowledge thereof.
- vii. No person who is deficient in eyesight or hearing shall be employed on the works and all safety regulations for the time being in force at the above are to be brought to the notice of all persons employed on the works and to be strictly complied with.

# 120 Protection of Existing Works and Services

The Contractor shall acquaint himself with the position of all existing services such as sewers, water drains, cables for electricity and telephone, lighting and telephone poles, water mains, etc., before commencing any excavation or other work likely to affect the existing services.

The cost of all plant, equipment and materials, labour, technical and professional staff, transport and the like necessary for determining the locations of existing services, including the making good of any damage caused to such services all to the satisfaction of the Engineer, shall be deemed to be included in the tender rates. No other payment shall be made for the costs of such operations, nor for the making good of damage caused thereby to the existing services.

The Contractor shall be held responsible for injury to existing structures, works or services and shall indemnify and keep indemnified the Employer against any claims in this respect (including consequential damages).

#### 121 Diversion of services

Add the following to the existing text:

- (a) The Contractor shall acquaint himself with the position of all existing services including sewers, water pipes, underground drains, cable for electricity and telephone lines, telephone and lighting poles before commencing any excavation or other work likely to affect these existing services.
- (b) The Contractor shall pay any charges arising from the moving of such services for which Provisional Sums have been included in the Bill of Quantities. Subject to the agreement of the Engineer and upon production of receipts, the Contractor shall be reimbursed in Interim Certificates the net cost of such moving or alteration plus the percentage inserted in the Bill of Quantities for all costs and profits in making the payments.
- (c) The Contractor shall be entirely responsible for and shall repair at his own cost, any services that may be damaged by his plant, equipment or personnel for not following the laid down procedure of locating and shifting services or damage that may occur subsequent to alteration of such services. The Contractor shall indemnify the Employer against claims arising from damages to existing services or works.

#### 123 Liaison with Government Officials and Police

Add the following to the existing text:

In addition to the requirements of maintaining liaison with Government Officials and Police, the Contractor shall be responsible for acquainting himself with all current and valid ordinances or regulations which may affect the work.

The Contractor's attention is also drawn to his obligations with regard to inspection and examination of the site as stipulated under Clause 11 of the Conditions of Contract.

#### 124 Land For All Camps Sites And For The Contractor's Own Purposes, Including Temporary Works.

Notwithstanding Clause 124 of the Standard Specification all requirements of land for temporary works and construction purposes shall be to the approval of the Engineer but the Contractor will make all necessary arrangements with the property owners concerned and pay all charges arising therefrom. On or before completion of the Contract, the Contractor shall remove all temporary works and shall restore all such land to the condition in which it was immediately prior to the occupation thereof as far as is reasonable and practicable. No separate payment will be made to the Contractor on account of these items and the Contractor must make due allowance for them in his rates.

Notwithstanding Clause 120 of the Standard Specifications, the Contractor shall be required to appoint competent surveyors who will liaise with the Engineer on matters related to the demarcation of the existing road reserve, site measurements, removal and reinstatement of existing services.

#### 125 Water Supply

Add the following to this clause:

The Contractor at his own cost shall obtain necessary permissions from both relevant Government authorities and private parties to draw water from natural sources and private sources respectively.

#### 127 Information from Exploratory Boring and Test Pits

Delete the contents of Clause 127 and substitute with the following:

(a) The Materials Report prepared by the Employer does not form part of the bid documents. However, the report will be made available for the Contractor's verification only and any conclusions in regard to

suitability of material, location of borrow pits and material quantities made by the Contractor based on this information, will be his own responsibility.

(b) The Contractor shall allow in his programme for construction of trial sections and carrying out tests upon them as directed by the Engineer. Trials would normally be required at the start of each pavement layer and if change of method or equipment deems it necessary as directed by the Engineer. The time for completion of the Contract shall not be extended because of the time needed to construct trial sections and evaluate the test on them.

At least fourteen (14) days before the work of laying any pavement layer is commenced the Contractor shall construct a trial at least 100 m in length and to the full construction width and shall be laid to the specified depth for the material. For each trial the contractor shall use the materials mix proportions, mixing, laying, compaction plants and construction procedure that he proposes to use for the main work. The main work of laying the pavement layer shall not be commenced until this trial has been tested and approved by the engineer.

No variation in the construction procedure, mix proportions, size, grading or source of any of the constituents shall be made without the agreement of the Engineer who may first require new trial sections to be carried out.

#### 128 Storage of Materials

All materials shall be stored on Site in a manner approved by the Engineer and the Contractor shall carefully protect from the weather all work and materials which may be affected thereby.

#### 129 Test Certificates

When instructed by the Engineer the Contractor shall submit certificates of test from the suppliers of materials and goods required in connection with the works as the Engineer may require.

Such certificates shall certify that the materials or goods concerned have been tested in accordance with the requirements of the specifications and shall give the results of all the tests carried out. The Contractor shall provide adequate means of identifying the materials and goods delivered to the site with the corresponding certificates.

#### 131 Signboards

The Contractor shall provide and erect publicity signs on the site as directed. The Engineer shall, as shown in the Drawings, direct the minimum dimensions and thickness of the steel framework and sheet. The framework and sheet shall be prepared and painted black, while the ring at the top of the supporting frames shall be painted white. The wordings and KAA's logo shall be printed on backlit sticker paper resistant to the effects of weather using reflectorized paint or material approved by the Engineer. The colours, fonts and heights of the letters shall be as indicated on the attached drawings and as directed by the Engineer.

Signboard shall be removed and handed over to the Airport/Airstrip in charge at the end of Defects liability Period.

#### 132 Engineers, Office, Equipment & Furniture

The Contractor shall supply new furniture and office equipment for Engineer's office for Engineer's exclusive use. Ownership to revert to the client at the end of the Contract. The contractor shall maintain for the duration of the Contract, the Engineer's offices until the expiry of the Defects Liability Period.

At the end of the Contract, all Engineer's offices, office furniture/equipment and laboratory furniture/ equipment shall revert to the Employer.

A portable water supply shall be provided.

Furniture and equipment for the Engineers Office shall be as listed

	FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY & OFFICE		
1	Executive desk, with lockable drawers	No.	1
2	Visitor's seats with Armrest.	No.	4
3	Typist table complete with a chair	No	1

4	4-drawer lockable steel fire proof filling cabinet with combination locks.	No.	1
5	3 m <sup>2</sup> wooden book shelves	No.	1
6	4 Way detachable Workstation office desk 2.4 m x 2.4 m, with lockable drawers and screens.	No.	1
7	Conference table for 6 sitting positions minimum size 1.8m x 3m		1
8	Executive Swivel orthopedic chair adjustable height	No.	8
9	Lockable cupboards.	No.	1
10	Soft board for wall notices, drawings & other civil works 1.2m x 0.9 m	No.	2
11	Fire extinguishers, CO <sub>2</sub> type, 9kgs capacity.	No.	1
12	First aid kit for general purposes	No.	1
13	Provide and maintain Konica Minolta pagepro 1490 MF or similar approved desktop laser printer	Nº	1
14	Electronic Scientific Calculator 12 figures (Casio fx-995)	№	2
15	Laptops	No	4
16	Water dispensers	No	2

# 132.1 Laptops specifications

Description	Requirements
Processor Type:	1th Gen Intel(R) Core(TM) i7-1165G7 @ 2.80GHz
	2.80 GHz
Cache:	16MB Cache
Memory (RAM)	16GB
Hard Drive	1TB
Optical Drive	Blu-ray ROM with Super Multi DVD R/RW
	Double Layer
Multimedia Card Slot	8 in 1 media card reader: supports, Secure Digital
	(SD), Memory Stick, Memory Stick Pro, Memory
	Stick Duo and Memory Stick Pro Duo.
Graphics	ATI Radeon HD4850
Fingerprint	Yes
Video Camera	2.0 Megapixel
Display Size	TFT Size 15.6 (1920x1080) Inch Full HD
Mouse	Wireless Optical Mouse with mouse pad
Ethernet	10/100/1000 Base-T Network
Wi-Fi	Intel 5300 (802.11 a/b/g/n)
Bluetooth	Integrated Bluetooth® 4.0
Ports 4 USB 3.0	
	VGA-in,RJ-45 and AC-in

Operating System	Genuine Windows® 8 Professional (64-bit)preinstalled(OEM media for OS and Drivers will be supplied by the vendor, (with licensed CD or back up CD)		
Ms Office suite	Office 2010		
Kaspersky Antivirus Network	One year Licensed		
security 2020 and Firewall Software			
Power Supply	220 – 240 V		
Other Softwares	Come preloaded with genuine AutoCAD 2014 and		
	latest version of Adobe Acrobat		
Battery	6 Cell Lithium-ion		
Warranty	1 year		
Supplied with a Laptop bag	Yes		

#### 132.3 Survey Equipment

The Contractor, when instructed, shall provide and install at the Engineer's office the Equipment specified below with a dealer's certificate and warranty:

The survey equipment and design software to be provided shall include:

1	Engineer's automatic level Wild NAK - 2 or similar including tripod	1
2	Set of tripods (wild or similar)	1
3	Survey umbrella	1
4	3m ranging rod (metallic)	2
5	Levelling staff 5m with levelling bubble (wild iNLE 3 or similar)	2
6	30m steel white face tape	2
7	100m steel band tape	2
8	3m tape measure	2
9	Steel tape repair outfit	1
10	2kg hammer	2
11	Pangas 16" straight	2
12	Total station complete with a field data collector TOPCON Model ITS -722 or similar including all accessories and supporting software	1

The Contractor may be instructed by the Engineer under clause 58 of the General Conditions of Contract to make payments of general receipted accounts for such items as stationery, stores, claims and allowances for supervision personnel and any miscellaneous claims or the Engineer may direct the Contractor to purchase or pay for the above. The Contractor will, on provision of receipts, be paid under appropriate bill items in the BoQ.

# 137 Attendance upon the Engineer and his Staff

The contractor shall provide for employing the Engineer's support staff as detailed below,the contractor shall seek prior approval from Engineer before employing the staff.

The costs, for attendance required by this Clause 137, shall be as specified in the attached table:-

Designation	Number	Minimum	Minimum gross
		<u>Qualifications</u>	monthly salary (ksh)
Inspector	1	National Diploma in	
		Civil Engineering	98,724.00
Surveyor	1	National Diploma in	
		Surveying/Civil	98,724.00
		Engineering	
Materials	1	National Diploma in	98,724.00
Technologist		Civil Engineering	
Chainman	2	KCSE Certificate	50,000.00
Office clerk/	1	Certificate in	70,000.00
Documentarist		Secretarial or	
		equivalent	
Office assistant	1	KCSE Certificate	30,000.00

In addition to the above listed staff, the Employer may attach under training or internship/Industrial attachment additional number of technical staff comprising Engineers, Inspectors, Surveyors and Materials Technologists.

#### 138 Vehicles and Drivers for the Engineer and his Staff and Method of Payment

In addition to provisions of the Clause 138 of the Standard Specification, the Contractor shall when instructed to do so provide, fuel and maintain in good working conditions, with driver, the number and type of vehicle specified in the Bill of Quantities for exclusive use of the Engineer and his staff throughout the Contract.

The Contractor shall insure comprehensively the vehicles for any licensed driver and shall provide competent drivers during normal working hours and whenever required by the Engineer.

Should any vehicle supplied not be in road worthy condition, the Contractor shall provide equivalent replacement vehicle until such time as the original vehicle is repaired to the satisfaction of the Engineer and returned for use.

Payment for the vehicles up to 5,000Km shall be by months. Payment for mileage above 5,000Km shall be made at a rate per kilometer. The payment shall be inclusive of all fuels, lubricants, servicing, insurance, maintenance, drivers and repairs. The rate shall include any overtime the driver might be due or any other allowance to the normal working hours.

The vehicles provided under this clause shall revert to the Contractor.

#### 139 Miscellaneous Accounts

The Contractor may be instructed by the Engineer to make payments of general miscellaneous accounts for such items as stationary, stores and equipment and miscellaneous supervision personnel allowances and claims or the Engineer may direct the Contractor to purchase or pay for the above. The Contractor will be paid on a prime cost basis plus a percentage for overheads and profits under appropriate items in the Bills of Quantities.

#### **Environmental Protection (Where Applicable)**

The Contractor shall comply with the Statutory Regulations in force in Kenya regarding environmental protection and waste disposal, and shall liaise with the National Environmental Management Agency (NEMA).

Within four (4) weeks of the order to commence work, the Contractor shall prepare and submit a specific Environmental Management Plan for the project and his operations, relating to the approved Environmental Impact Assessment. The Environmental Management Plan shall outline potential environmental hazards and risks, and provide an action plan to deal with the hazards, minimise the risks, and mitigate adverse environmental impacts, and include a general decommissioning plan covering all relevant aspects of the project. The Environmental Management Plan shall identify monitoring indicators and reporting requirements.

The Contractor shall be required to submit environmental progress reports to the Engineer every three (3) months.

The Contractor shall ensure so far as is reasonably practicable and to the satisfaction of the Engineer; that the impact of the construction on the environment shall be kept to a minimum and that appropriate measures are

taken to mitigate any adverse effects during the construction.

- (a)The Contractor shall exercise care to preserve the natural landscape and shall conduct his construction operations so as to prevent any unnecessary destruction, scarring, or defacing of the natural surroundings in the vicinity of the work. Except where clearing is required for permanent works, all trees, native shrubbery, and vegetation shall be preserved and shall be protected from damage by the Contractor's construction operations and equipment. All unnecessary destruction, scarring, damage or defacing resulting from the Contractor's operations shall be repaired, replanted, reseeded or otherwise corrected as directed by the Engineer, and at the Contractor's expense.
- (b)The Contractor shall ensure that measures are in place to control soil erosion and water pollution, by use of berms, dykes, silt fences, brush barriers, dams, sediment basins, filter mats, netting, gravel, mulches, grasses, slope drains, contour banks, and other erosion control devices and methods. Temporary erosion control provisions shall be coordinated with permanent erosion control features to assure economical, effective and continuous measures throughout the period of the works. The Contractor's attention is drawn to the requirements of Clause 502, in that works need to be progressively finished so that permanent vegetation can establish quickly to mitigate soil erosion and erosion of drains.
- (c)The Contractor shall provide all the labour, equipment, materials, and means required and shall carry out proper and efficient measures wherever and as often as necessary to minimise the dust nuisance.
- (d) The Contractor shall comply with all applicable Kenyan laws, orders and regulations concerning the prevention, control and abatement of excessive noise. Blasting, use of jackhammers, pile driving, rock crushing, or any other activities producing high-intensity impact noise may be performed at night only upon approval of the Engineer.
- (e) Immediately after extraction of materials, all borrows pits shall be backfilled to the satisfaction of the Engineer. In particular borrow pits near the project road shall be backfilled in such a way that no water collects in them.
  - (f) Spilling of bitumen fuels Oils and other pollutants shall be cleared up.
- (g) The Contractor's attention is drawn to the requirements of the Standard Specification in regard to the environment and in particular to the following clauses:

Clause 115: Construction Generally
Clause 116: Protection from Water
Clause 136: Removal of Camps

Clause 605: Safety and Public Health Requirements Clause

Clause 607: Site Clearance and Removal of Topsoil and Overburden

(h) Payment in respect of this Clause 142 is included as a Lump Sum in the Bill of Quantities. Payment of the Lump Sum will be by equal monthly instalments over the period of the Contract excluding the Period of Maintenance. The total sum of the instalments shall not exceed the Lump Sum, and payment of the monthly instalment will only be made for that month if the Engineer is satisfied that the Contractor has fully complied with the requirements of Clause 142, otherwise the Contractor shall forfeit such instalment.

#### 200 MATERIALS AND TESTING OF MATERIALS

#### 205 Soils and Gravels

Whenever in the Contract Document a minimum California Bearing Ratio (CBR) is specified, the CBR of the material shall be determined at the specified state of compaction.

- (i) After four days soaking in the case of virgin materials, and
- (ii) After seven days curing plus seven days soaking in the case of cement improved materials.

#### 218: Paint for pavements marking

The paint shall be highway quality marking paint in accordance to the relevant Kenyan standards. Paint shall be internally reflectorized and suitable for applying by brush, low pressure spaying equipment and high pressure spraying equipment. The paint shall be of a type approved by the engineer.

#### 300 Setting Out and Tolerances

#### 301 Setting Out

#### (b) Detailed setting out

Reference pegs shall be 50 mm x 50 mm in cross section, 600 mm long driven 400 mm firmly into the ground and painted white above ground level. The offset from the centreline shall be indicated by a small nail, 20-25 mm long, with its head driven flush with the top of the peg. Chainages, chainage offsets and reference elevation shall be clearly marked on the sides of the peg to the satisfaction of the Engineer.

#### **500: EARTHWORKS**

#### 502 General

Renumber the existing text as 502.1 and add the following Sub-clause 502.2 to this clause:

#### **502.2** Definitions for Earthworks

Formation level is defined as the lower (bottom) level of sub-base. Sub-grade is the material within 300 mm or such other thickness as may be shown on the drawings, below the formation level. Earthworks are defined as the works below the sub-grade level.

#### 504 Preparation Prior to Forming Embankments

Renumber the existing text as 504.1 and add Sub-clauses 504.2 and 504.3 as follows;

#### 504.2 Benching

Where shown on the drawings or instructed by the Engineer, the Contractor shall, where fill is required, excavate benches where the ground to receive the fill has a slope greater than 1 (vertical): 5 (horizontal).

Where benching is required, the existing ground, after removal of top soil in accordance with the requirements of Section 4 of the Specification, shall be benched by cutting steps such that the horizontal width between the cut face of the bench and the instructed final embankment slope is not less than 1.5 m. Each slope shall be graded to a slope of 1 in 40 from the centreline of the road so as to avoid the pounding of water. The minimum width of 1.5 m shall generally be required for each bench and the Contractor shall allow working in narrow widths.

All earthworks in widening shall be compacted to 100% MDD (AASHTO T99).

The volume of material cut from benches and its re-utilization shall not be measured for payment but is deemed to be included in the Contractor's rates for earthworks.

#### **504.3** Ground Compaction

After top soil stripping in accordance with Section 4 of the Specification and benching in accordance with Clause 504 of the Specification, the existing ground, including benches, under embankments shall be compacted to a dry density of at least 95% MDD (AASHTO T99) to a depth of 150 mm below ground level unless otherwise directed by the Engineer. Compaction of benches other than the first bench will not be separately measured and is deemed to be included in the Contractor's rates for earthworks.

#### 505 Construction of Embankments

Only material approved by the Engineer shall be used in embankments. Material with high swelling characteristics or high organic matter content and other undesirable material shall not be used, unless specifically authorized by the Engineer. Unsuitable material shall include:

- Material containing more than 5% by weight of organic matter, such as topsoil, humus, material from swamps, mud, log stumps and perishable material
- Material with a swell of more than 3%
- Clay with a liquid limit exceeding 50%
- Material having moisture content greater than 105% of optimum moisture content (standard compaction) in its naturally occurring state.

Material for sub-grade shall meet the following requirements:

- CBR of not less than 15% measured after 4 day soak on a laboratory mix compacted to a dry density of 100% MDD(T99)
- Swell less than 1% on the laboratory mix sample
- Maximum dry Density (MDD) not less than 1500 kg/m<sup>2</sup>.

Add the following:

In case the Contractor has in his possession heavy compaction equipment, he may opt to construct the sub-grade in a single layer of 300 mm thickness, following compaction trials and upon the Engineer's approval.

#### 506 SWAMPS

Areas that are to be classified as swamps will be identified and the treatment thereof specified in the Special Specification. All areas other than those so specified shall be considered as normal earthworks and the Contractor's rates shall include for all the requirements of Clause 114 of this Specification.

#### 507 ROCKFILL TO SWAMPS

Where specified in the Special Specification or instructed by the Engineer the Contractor shall place rockfill to swamps. The rockfill shall be obtained from a rock quarry and shall be loaded, transported from a rock quarry, placed in uniform layers rolled and trafficked until it is fully embedded over the whole area instructed. The rockfill shall be of maximum dimension 250 mm, reasonably well graded and with not more than 5% finer than 10 mm. The layer thickness and number of layers shall be as instructed by the Engineer who may vary the requirement during the rockfill operation. Each layer shall be blinded with smaller rock fragments so as to fill as many of the Voids as possible before the next layer is placed. Before additional layers are placed or before normal earthworks resume the Contractor shall proofroll each layer in accordance with Clause 512 of this Specification.

Where instructed by the Engineer the Contractor shall place a filter fabric ('Terram' or similar approved) under or around the rockfill. When placing the rockfill onto or in the filter fabric the Contractor shall ensure that the filter fabric is not punctured or damaged in any way. Where the filter fabric is placed around the rockfill the final layer of rockfill shall be blinded with gravel so as to present a smooth surface to receive the filter fabric. The filter fabric shall be installed in accordance with the manufacturer's instructions.

Where the Contractor instructed by the Engineer shall first excavate unsuitable material and then place and embed rockfill on and into the underlying material, or on a filter fabric if specified by the Engineer.

#### 508 Compaction of Earthworks

Fill above ground level adjacent to pipe culverts shall be compacted in layers not exceeding 150 mm in thickness to a field density of 100% MDD (AASHTO T99) up to the level of the top of the pipes or top of surround. The compaction shall extend for a width equal to the internal diameter of the pipe on either side of the pipe (s) or surround (s).

Adjacent to the structures, all fill above ground level up to the underside of the sub-grade shall be compacted in layers not exceeding 150 mm in thickness to a field density of 100% MDD (AASHTO T99). In case of fill around box culverts, this shall be carried out for the full width of the fill and for a length bounded by the vertical plane passing through the ends of wing walls.

Where the formation in cut areas is formed of hard material, the Contractor shall remove the hard material to a depth of 200 mm or such other depth as may be directed by the Engineer. The void so formed shall be backfilled with sub-grade quality material and compacted to the same standard and tolerances as for sub-grade in fill.

Improved sub-grade, where required as part of the embankment construction shall be compacted and finished to the same standards and tolerances as those required for normal sub-grade.

#### 511 Borrow Pits

Delete the first paragraph and substitute with the following;

Fill material which is required in addition to that provided by excavation shall be obtained from borrow pits to be located and provided by the Contractor but to the approval of the Engineer.

## 514 Top Soiling and Grassing

Consider the existing text to be Sub-clause 514.1

The embankments and cut faces referred to in Clause 514.1 of the Standard Specification are synonymous with fill slopes and cut slopes defined in Clause 110 (c) of the same specification.

Grassing shall be by hydro-seeding with approved grass seeds as directed by the Engineer. The contractor shall care for and water the grass until it is firmly established/germinated to approval.

#### 800 CULVERT AND DRAINAGE WORKS

#### 804 Excavation for Culverts and Drainage Works

In the Standard Specification make the following amendments on this clause:

In paragraph 6, line 3, in paragraph 7, line 5 and in paragraph 11, line 6, delete reference to "95%" and insert "100%".

#### 805 Excavation in Hard Material

In the Standard Specification, sub-clause 805 (a) and (b) delete reference to "95%" and insert "100%"

#### 809 Bedding and Laying of Pipe Culverts

In the Standard Specification, sub-clause 809 (a), delete reference to "95%" and insert "100%". Add the following to Clause 809:

- (d) Laying, Bedding and Surround for Culverts Cast In-situ
  - In addition to the requirements of the Standard Specification, where inflatable balloon method of casting culverts in-situ is used, it is essential that thorough pre-construction trials are carried out and necessary adjustments made to ensure that:
  - (i) All concrete used for surround and the top 50 mm or 80 mm of bedding for culverts size 600 mm and 900 mm internal diameters respectively shall be Class 25/20.
  - (ii) The inner concrete barrel surface immediately in contact with the inflated balloon form during placing shall achieve Class F3 finish.

#### **810** Jointing Concrete Pipes

In addition to the requirement of Clause 810 of the Standard Specification, all precast concrete pipes shall be ogee jointed pipes laid with a 1:2 (cement: sand) mortar and provided with fillets on the outside and as described in the Standard Specification.

#### 812 Backfill

In the Standard Specification make the following amendments to this clause:

- (a) Wherever the expression "dry density of 95% (AASHTO T99)" occurs, this expression shall be deleted and replaced with "dry density of 100% (AASHTO T99)".
- (b) Delete paragraph 6: "For pipes culverts...depth of 150 mm", entirely.

#### 816 Minor Drainage Structures

Add the following to this clause:

#### (a) Concrete Lined Drains

The exposed surfaces of concrete lined drains shall be a class UF2 finish. Concrete lined drains shall be constructed to the same standard as the minor drainage structures.

#### 817.4 Removal of Existing Pipes, Inlet and Outlet Structures

The Contractor shall remove existing concrete pipes where instructed by the Engineer including bedding, surround, inlet and outlet structures. Concrete shall be disposed of as directed by the Engineer. Masonry structures where in a good condition shall be preserved to reuse as may be directed by the Engineer. Additional material shall be added to the void left after removal of these pipes and structures and shall be carefully compacted to 100% MDD (T99). The void shall then be preserved for placement of any new pipes or construction of new structures.

The existing inlet and outlets structures, where in good condition, and reusable as beds to pipe extensions, shall not be removed. Any such structures removed without the Engineer's approval shall be restored to the original condition at the Contractor's expense.

#### 817.5 Extension of Existing Pipes

Where shown on the drawings or instructed by the Engineer, the Contractor shall extend the existing concrete pipes. Part of the existing pipe surround shall be broken and concrete collar constructed as shown on the drawings. The extension shall be backfilled to the same standards as for new pipes.

#### 1200 NATURAL MATERIAL SUBBASE AND BASE

#### 1201 MATERIAL REQUIREMENTS

Natural materials for base and subbase shall conform to the specifications given in Section 12 of the Standard Specifications for Road and Bridge Construction for cement and lime improved base and subbase.

#### 1202 MEASUREMENT AND PAYMENT

Natural material for subbase and base shall be measured by the cubic metre placed and compacted upon the road calculated as the product of the compacted sectional area laid and the length.

Measurement and payment of natural materials for subbase shall be in conformity with Method A of the Standard Specification with the following amendment

No separate payment shall be made for overhaul in this contract

No overhaul will be paid for separately and Tenderers are to include it in their rates.

#### 1300 GRADED CRUSHED STONE BASE

#### 1303 Material requirements

The material for graded crushed stone Base shall comply with requirements for Base stone Class A 0/30. The Base graded crushed stone material shall have a maximum of 10% of particles smaller than 0.075 mm and the resultant layer shall comply with all requirements of Section 13 of the Standard Specification.

The crushing ratio for all graded crushed stone pavement materials shall be minimum 100%.

#### 1304 CRUSHING, SCREENING AND MIXING

Unless otherwise instructed, crushing shall be carried out in at least two stages.

The crushing, screening and proportioning of materials, and subsequent mixing shall be carried out using such methods machines as shall be acceptable to the Engineer. To avoid segregation, graded crushed stone shall be moistened when being handled and shall not be stockpiled in heaps higher than 5 m.

Should the Contractor wish to add material from another source in order to achieve the specified grading, the following conditions the following conditions shall apply: -

- i. The Contractor shall be responsible for all costs associated with the provision and mixing in of the material, including land acquisition.
- ii. The material shall be non-plastic and consist of 90-100% quartz or other approved hard, sharp durable particles and shall be free from organic materials, clays and other deleterious substances.
- iii. Only material passing the 6.3mm sieve may be added. The percentage to be added shall be agreed with the Engineer and in any case shall not exceed 15% by weight of the mixture.
- iv. The minimum crushing ratios specified in Clause 1303 of this Specification shall be maintained.

#### 1305 TRANSPORTING GRADED CRUSHED STONE

Graded crushed stone shall be transported damp and in such a way that no segregation occurs.

#### 1306 Laying and Compacting Graded Crushed Stone Base

Graded crushed stone shall be laid by a paving machine.

#### 1307 PROOFROLLING

The Contractor shall proof roll completed layers in accordance with Clause 1205 of this Specification.

#### 1308 SETTING OUT AND TOLERANCES

Graded crushed stone subbase and base shall he set out and constructed to the tolerances given in Section 3 of this Specification.

#### 1310 MEASUREMENT AND PAYMENT

a) Item: Graded crushed stone for base or subbase Unit: m3 of each nominal size of each class

Graded crushed stone shall be measured by the cubic metre for each of the nominal sizes in each class of material calculated as the product of the compacted sectional area instructed to be laid and the length instructed

The rate for graded crushed stone shall include for the cost of mixing, hauling, spreading and compacting the material and complying with the requirements of Sections 2, 6 and 13 of this Specification. No overhaul will be paid.

#### 1500-BITUMINOUS SURFACE TREATMENTS AND SURFACE DRESSING

#### 1502b Materials for Prime Coat and Tack Coat.

- (i) The binder for prime coat shall be MC 70 cutback bitumen unless otherwise specified. This shall be applied over granular surface to receive any bituminous layer.
  - (ii) The binder for tack coat shall be K1-60 bitumen emulsion. This shall be applied over bituminous surface to receive further bituminous layer. A tack coat shall also be applied on prime coat, which has lost its adhesive properties due to contamination, long exposure or weathering before receiving bituminous layer. Such an application shall be made without additional expenditure by the Employer, unless it is required due to reasons outside the Contractor's control.

#### 1504b Spraying of Prime Coat and Tack Coat

- (i) The rate of application of prime coat shall be from 1.0 to 1.2 litres/m². The exact quantity to be applied may be varied within these limits to suit field conditions and will be determined from trials by the Contractor and approved by the Engineer.
- (ii) The rate of application of the tack coat on bituminous surface shall be 0.8 to 1.2 litres/m². The exact quantity to be applied may be varied within these limits to suit field conditions and will be determined from trials by the Contractor and approved by the Engineer.

#### 1511c Measurement and Payment

Seal coats shall be measured by the litre, for each type of bituminous binder for each seal coat, calculated as the product of the area in square metres sprayed and the rate of application in litres/square metres.

#### SECTION 16 - BITUMINOUS MIX BASES, BINDER COURSES AND WEARING COURSES

This section covers different types of bituminous mixes for base and surface (wearing and binder courses) and is divided into the following parts: -

#### ASPHALT CONCRETE SURFACE COURSE.

#### PART 1 - GENERAL

#### 1.1 DESCRIPTION

- A. This item shall consist of a course composed of mineral aggregate, filler and bituminous material mixed in a central mixing plant and placed on a prepared course in accordance with this specification.
- B. Each course shall be constructed to the depth, typical section or elevation required by the drawings or as indicated by the Engineer and shall be rolled, finished and approved before the laying of the next course.

#### 1.2 REFERENCES

#### A. Testing Requirements

ASTM C 29	Unit Weight and Voids in Aggregate
ASTM C 88	Soundness of Aggregates
ASTM C 117	Materials finer than 75-m (No. 200) Sieve in Mineral Aggregates by washing
ASTM C 127	Specific Gravity and Absorption of Coarse Aggregate
ASTM C 128	Specific Gravity and Absorption of Fine Aggregate
ASTM C 131	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the L.A. Machine
ASTM C 136	Sieve Analysis of Fine and Coarse Aggregates
ASTM C 142	Clay Lumps and Friable Particles in Aggregates
ASTM C 183	Practice for) Sampling and the Amount of Testing of Hydraulic Cement.
ASTM D 75	Sampling Aggregates
ASTM D 792	Density and Specific Gravity of Plastics by Displacement
ASTM D 1188	Bulk Specific Gravity of Compacted Bituminous Mixtures using Paraffin-Coated Specimens

ASTM D 1559	Resistance to Plastic Flow of Bituminous Mixtures using Marshall Apparatus
ASTM D 1664	Coating and Stripping of Bitumen-Aggregate Mixtures
ASTM D 2041	Theoretical Maximum Specific Gravity of Bituminous Paving Mixtures
ASTM D 2172	Quantitative Extraction of Bitumen from Bituminous Paving Mixtures
ASTM D 2419	Sand Equivalent Value of Soils and Fine Aggregate
ASTM D 2726	Bulk Specific Gravity of Compacted Bituminous Mixtures using Saturated
	Surface-dry Specimens
ASTM D 2950	Density of Bituminous Concrete in Place by Nuclear Method
ASTM D 3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving
	Mixtures
ASTM D 3549	Thickness or height of compacted bituminous paving mixture.
ASTM D 3625.	Effect of Water on Bituminous-Coated Aggregate
ASTM D 4123	Indirect Tension Test for Resilient Modulus of Bituminous Mixtures
ASTM D 4318	Liquid Limit, Plastic Limit and Plasticity Index of Soils.
ASTM D 4867	Effect of Moisture on Asphalt Concrete Paving Mixtures.
AASHTO T 30	Mechanical Analysis of Extracted Aggregate
EN 933-9	Methylene Blue Test

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Material Specification Requirement

ASTM D 242 Mineral Filler for Bituminous Paving Mixtures

ASTM C 946 Penetration-Graded Asphalt Cement for Use in Pavement Construction

C. Plant Requirements

ASTM D 995 Requirements for Mixing Plants

# 1.3 RELATED SECTION

A. Sections to be referred to:

1. Section 32 12 73.13 Hot to Cold Joint Preparation

2. Section 01 71 13-13 Mobilisation Demobilisation

#### **PART 2 - PRODUCTS**

#### 2.1 AGGREGATE

#### General

- 1. Aggregate shall consist of crushed stone or crushed gravel. Natural sand can be blended if allowed by these specifications.
- 2. The definition of the various portions of material is as follows:
  - a) Coarse aggregate: material retained on the No. 8 sieve (size > 2.4 mm);
  - b) Fine aggregate: material passing the No. 8 sieve and retained on the No. 200 sieve (0.075 mm < size < 2.4 mm);
  - c) Mineral filler: material passing the No. 200 sieve (size < 0.075 mm).

#### A. Coarse Aggregate

- 1. Coarse aggregate shall consist of sound, tough, durable particles, free from adherent films of matter that would prevent thorough coating and bonding with the bituminous material and be free from organic matter and other deleterious substances.
- 2. The aggregate shall comply with the requirements as shown in Table 1.

#### B. Fine Aggregate

- 1. Fine aggregate shall consist of clean, sound, durable, angular particles produced by crushing stone or gravel.
- 2. To obtain the required gradation of aggregate blend or to improve the workability, natural sand may be used. The amount of sand to be added shall be adjusted to produce mixtures conforming to the requirements of this Section. If it is necessary to add natural sand, the percentage shall be kept below 15% (calculated by weight of total mixture).
- 3. The aggregate shall comply with the requirements as shown in Table 1.

#### C. Filler

- 1. The Contractor shall be aware that the mineral filler, naturally present in the crushed aggregate shall comply with the requirements in Table 1. In case of non-compliance, the natural filler shall be completely discarded from the blended aggregate and replaced with manufactured filler.
- 2. Manufactured filler shall be from limestone and shall comply with the requirements in Table 1

# D. Summary of Aggregate Requirements

Test		Size Requirer		Reference
-	Grading	combined filler	Table 4 ASTM D 242	ASTM D 242
	Shape - Two or more fractured faces	coarse	> 95% (w/w)	ASTM D 5821
	<ul><li>One or more fractured faces</li><li>Flat and elongated pieces ratio 3:1</li></ul>	coarse	> 100% (w/w) <15% (w/w)	ASTM D 5821
	Water Absorption	coarse	<3%	ASTM D 4791
_	Sand Equivalent Angularity	coarse fine	< 3%	ASTM C 127 ASTM C 128
- - -	Aggregate Impact Value Ten Percent Fines Value	fine fine	> 65% > 45% < 30%	ASTM D 2419 ASTM C 1252
-	Wear (Los Angeles Abrasion Value)	10-14 mm 10-14 mm	> 150 kN	EN 13043 EN 13043
-	Sodium Sulphate Soundness Loss (1	coarse	< 35% < 9%	ASTM C 131
_	Magnesium Sulphate Soundness Loss <sup>(1)</sup>	coarse	< 12%	ASTM C 88
	Clay/friable particles Plasticity Index	coarse	<3%	ASTM C 88
	Harmful fines by Methylene Blue	fine filler filler	<4 < 1.9 MEQ/	ASTM C 142 ASTM D 4318 EN 933-9

### **Table 1: Aggregate Requirements**

- Preliminary Material Acceptance
  - 1. Sources of aggregate shall be selected well in advance of the time the materials are required on site. An inspection of the producer's operation may be made by the Engineer.
  - 2. Prior to delivery of materials to the site, the Contractor shall submit test reports to the Engineer for the following materials:
    - a) Coarse Aggregate
      - 1) Percent of Wear
      - 2) Soundness
      - 3) Water Absorption
    - b) Fine Aggregate
      - **1)** Angularity
      - 2) Sand Equivalent
      - 3) Clay/Friable Particles

c) Filler

- 1) Plasticity Index
- 2) Swelling Potential
- 3. Preliminary acceptance of the aggregates by the Engineer does not relieve the Contractor from the obligation to supply aggregates to the site in full compliance with the requirements in this specification.
- 4. Failure to obtain preliminary acceptance from the Engineer shall mean that the Contractor shall identify another source of aggregates.

#### 2.2 ANTI-STRIPPING AGENT

- A. Anti-stripping agent shall be added, if necessary, to meet the requirements of the Job Mix Formula (JMF).
- B. If ordinary Portland cement is used as an anti-stripping agent, it shall be restricted to a maximum of 1% by weight of the combined aggregate.

#### **2.3 BITUMINOUS MATERIAL**

- A. The type, grades and controlling specifications for the unmodified bituminous base material shall be as follows:
  - 1. Penetration grade: 80-100
  - 2. Specification: ASTM D 946
- B. Additional field tests may be required by the Engineer before acceptance of:
  - 1. Penetration:
  - 2. Softening Point;

#### 2.4 COMPOSITION

#### A. Mixtures

- 1. The asphalt mix shall be composed of a mixture of aggregate, filler and bituminous material.
- 2. 2. The several aggregate fractions shall be combined in such proportions that the resulting mixture meets the grading requirements of the following:
  - a) Laboratory Trial Mix Formula (LTMF);
  - b) Field Job Mix Formula (FJMF).

#### **B.** Laboratory Trial Mix Formula

- 1. No asphalt mixture for pavement shall be produced until a Laboratory Job Mix Formula (LJMF) has been approved by the Engineer. Details of the JMF shall be submitted at least 15 days prior to first trials.
- 2. The LTMF shall be based on volumetric mix design.

#### **C. Volumetric Mixture Design**

1. The bituminous mixture shall be designed using testing methods and procedures contained in Chapters 2, 3, 4 and 5, Marshall Method of Mix Design, The Asphalt Institute's Manual Series No. 2 (MS-2), current edition.

- 2. The Contractor shall prepare a series of test specimens for a range of different asphalt contents, so that the test data show a well-defined curve. To provide adequate data, triplicate test specimens shall be prepared for each asphalt content to be used.
- 3. The requirements of Table 3 and Table 4 shall be met for this stage. The requirements of Table 3 and Table 4 are target values necessary to meet the acceptance requirements contained in Clause 3.6.
- 4. The gradations in Table 4 represent the limits that shall determine the suitability of aggregate for use in the source of supply, The selection of the maximum aggregate size shall be as indicated in Table 2.

Layer Thickness	Maximum Aggregate size	
< 50 mm	12.5 mm	
>50mm	19 mm	

**Table 2: Maximum Aggregate Size** 

Requirement
2 x 75
> 8.000
3-6
3-5
2,000 - 3,000
2,000 - 3,000 see Table 5 4 7/12

ASTM		Percentage by Weight Passing Sieves				
Sieve Size		25 mm max	19 mm max	16 mm max	12.5 mm max	
1 1/4"	(32.0 mm)	-	-	-	-	
	(25.0 mm)	100				
1"			-	-	-	
3/4"	(19.0 mm)	76 - 98				
			100	-	-	
5/8"	(16.0 mm)		90 -100	100		
		-			-	
	(12.5 mm)	66 - 86	78 — 98	79 — 99	100	
1/2"						

ASTM		Percentage by Weight Passing Sieves				
Sieve Size		25 mm max	19 mm max	16 mm max	12.5 mm max	
3/8"	(9.5 mm)	55 - 77	68 - 88	70 - 90	78 - 98	
No. 4	(4.75 mm)	40 - 60	48 - 68	55 - 75	58-78	
No. 8	(2 26 mm)	26 — 46	33 - 53	35 - 55	39 - 59	
No. 16	(1.18 mm)	17-37	20 — 40	20 — 40	26 — 46	
No. 30	(0.60 mm)	11 -27	14 - 30	16-30	19- 35	
No. 50	(0.30 mm)	7-19	9-21	10 -22	12- 24	
No. 100	(0.15 mm)	6-16	6- 16	7- 16	7- 17	
No. 200	0.075 mm	3-6	3-6	3-5	3 -6	
Bitumen Content		4 .5-7.0	5.0-7.5	5. 5 - 7.5	5.5-8 0	
VMA%		> 13	> 13	> 13	> 14	

**Table 4: Aggregate Grading Requirements** 

- 5. Bitumen content shall be calculated by weight of total mixture, excluding absorption.
- 6. The percentages in Table 4 are based on dry sieving. When the aggregate contains much fine dust, or clay, which might cling to the coarser aggregate particles, washed sieve analysis may be used. The percentages shown in Table 4 shall be adjusted for wet sieving, tested as per ASTM C 117.
- 7. The Loss of Stability shall not be more than 25 percent determined as follows:
  - a) Submerge tablets in water at 60°c for 30 minutes and determine Marshal Stability result (a);
  - b) Submerge tablets in water at 60°c for 24 hours result (b);
  - c) Loss of Stability calculated as (a-b)/a x 100 %

#### D. Mix Tolerances

The tolerances shown in Table 5 shall be applied to the FJMF to establish a job control-limits.

Material	Tolerance
Aggregate passing No. 4 sieve or larger	±7%
Aggregate passing Nos. 8, 16, 30 and 50 sieves	±4%
Aggregate passing Nos. 100 and 200 sieves	±1%
Bitumen content	±0.3%
Temperature	±10°c

**Table 5: Job Mix Tolerances** 

#### **PART 3 - EXECUTION**

#### 3.1 TEST SECTION

- Prior to full production, the Contractor shall prepare a quantity of bituminous mixture according to the LTMF, sufficient to construct a test section at least 30 m long and 5 m wide and shall be of the same depth specified for the construction of the course which it represents.
- **B.** The trial mixtures shall be laid at a location selected by the Engineer with the spreading and compacting equipment the Contractor proposes to use.
- C. The test section shall determine the appropriate method of spreading, compacting and finishing the bituminous mixture to comply with the specifications.
- D. If the test results should prove to be unsatisfactory, the necessary adjustments to the mix design, plant operation and work procedures shall be made till the plant can produce a mix as per the LJMF and within the tolerances as per Table 5. This mix shall be the FJMF (Filed Job Mix Formula) subject to approval by the Engineer. Full production shall not start prior to approval by the Engineer of the FJMF.
- **E.** When test sections do not conform to specification requirements, the layer(s) shall be removed and replaced at the Contractor's expense.
- F. The trials during the test section shall establish the following:
  - 1. Maximum mixing temperature in the plant for both aggregate and modified binder. (Guideline: not more than 175 °C);
  - 2. Minimum temperature of the mixture behind the paver. (Guideline: not less than 150°C);
  - 3. Preferred temperature to achieve maximum compaction. (Guideline: 140 160°C);

- 4. Layer temperature for finishing compaction using steel wheel rollers and P T R, without causing damage. (Guideline: 100 120 °C);
- **G.** If the test sections are successful, establish a correlation between nuclear method of density determination and core density with at least 12 separate tests.

#### 3.2 WORK PROCEDURE AND QUALITY ASSURANCE PLAN

- A. After the approval of the test section, the Contractor shall prepare and submit to the Engineer a detailed Work Procedure and a Quality Assurance Plan.
- B. The contents shall include as a minimum:
  - 1. Description of work;
  - 2. Work organization and responsibilities;
  - 3. Method of testing and reporting;
  - 4. Method, sequence and authority for correction measures based on laboratory & field tests (job mix, mixing plant and working methods);
  - 5. Remedial measures in case of non-acceptance.
- C. Full production shall not begin without the approval of the Engineer of the Work Procedure and Quality Assurance Plan.

#### 3.3 WEATHER LIMITATIONS

A. The bituminous mixture shall not be placed upon a wet surface or when the surface temperature of the underlying course is less than 5 deg. C.

#### 3.4 EQUIPMENT

#### A. Bituminous Mixing Plant

- Mixing shall be in batch mixing plant(s) in accordance with the requirements of ASTM D 995. The mixing plant shall have provision to separately weigh the filler to be added to the aggregate.
- 2. The Engineer or his authorized representative shall have access, at all times, to all parts of the mixing plants for checking the adequacy of equipment, verifying weights, proportions and material properties and checking the temperatures maintained in the preparation of the mixtures.
- 3. The plant calibration shall be checked and reported as follows:
  - At the beginning before the trial section is laid (Alternatively: Recent Proof of Certification for calibration from a recognized agency);
    - b) Every 100,000 tons of mix produced and incorporated in the works.
- 4. The emission of the plant shall comply with the national standards.

#### B. Hauling Equipment

Trucks used for hauling bituminous mixtures shall have tight, clean and smooth metal beds. To prevent the mixture from adhering to them, the truck beds shall be lightly coated with a minimum amount of paraffin oil, lime solution, or other approved material.

- 2. Each truck shall have a suitable cover and tailgate to protect the mixture from adverse weather. When necessary, to ensure that the mix will be delivered to the site at the specified temperature, truck beds shall be insulated or heated and covers shall be securely fastened.
- 3. The preferred payload of the trucks shall be at least 20 metric tons. This is to prevent rapid cooling. This requirement may be waived by the Engineer if the Contractor can prove to deliver asphalt mix on site at a temperature not less than required in Clause 3.1 F.

#### C. Asphalt Pavers

- 1. Bituminous pavers shall be well maintained, self-contained, power-propelled units with an activated screed or strike-off assembly, heated if necessary, and shall be capable of spreading and finishing courses of bituminous plant-mix material which will meet the specified thickness, smoothness, and grade.
- 2. The paving width capacity of the paving equipment shall be as specified in Clause 3. IA and easily adjustable in width.

#### D. Rollers

- 1. Rollers shall be a combination of the steel wheel (with and without vibration), and pneumatic-tired (PTR) type. They shall be in good condition, capable of reversing without backlash, and operating at slow speeds to avoid displacement of the bituminous mixture.
- 2. The number, type, and weight of rollers shall be sufficient to compact the mixture to the required density, both steel wheel rollers and PTR's are necessary to achieve the required compaction and finishing standards.

# E. prior to the start and during the length of each night shift the Contractor shall have available on site:

- minimum 120 tons of hot asphalt in storage;
- a lifting crane, suitable to remove the heaviest piece Of equipment from the runway area.

#### 3.5 PREPARATION OF MATERIAL

#### A. Bituminous Material

- 1. The bituminous material shall be heated to the specified temperature in a manner, which will avoid local overheating and provide a continuous supply to the mixer at a uniform temperature.
- 2. The temperature of the bituminous binder delivered to the mixer shall have a suitable viscosity for adequate coating of the aggregate particles (see Clause 3.1 F) and not be more than 5<sup>0</sup> C above the temperature of the aggregate.

#### **B.** Mineral Aggregate

- 1. The aggregate for the mixture shall be dried and heated to the temperature designated by the Field Job Mix Formula within the job mix tolerance specified. The moisture content of the stockpiled aggregate shall not be more than 4%.
- 2. The maximum temperature and rate of heating shall be such that no permanent damage occurs to the aggregate.

#### **C. Preparation of Bituminous Mixture**

- 1. The aggregate and the bituminous material shall be measured or gauged and introduced into the mixer in the amount specified by the FJMF.
- 2. The combined materials shall be mixed until a complete and uniform coating of the particles and a thorough distribution of the bituminous material throughout the aggregate are secured.

3. Wet mixing time shall be the shortest time that will produce a satisfactory mix without excessive plant aging and shall be approved by the Engineer.

#### D. Transporting, Spreading and Finishing

- 1. Transporting and deliveries shall be scheduled to match the spreading and rolling for one day's run during daylight or under proper artificial lighting.
- 2. Hauling over freshly placed material shall not be permitted until the material has been compacted, as specified, and allowed to cool to atmospheric temperature.
- 3. Immediately before placing the bituminous mixture, the underlying course shall be cleared of all loose or deleterious material with power blowers, power brooms, or hand brooms as directed.
- 4. The mix shall be placed and compacted at a temperature as determined in Clause 3.1 F.
- 5. Moisture content of the mix shall not exceed 1%. Mixture shall be rejected if delivered on site at a temperature less than the placing temperature.
- 6. Upon arrival, the mixture shall be spread to the full width by an approved bituminous paver.
- 7. It shall be struck off in a uniform layer of such depth that, when the work is completed, it shall have the required thickness and shall conform to the grade and contour indicated. The speed of the paver shall be regulated to eliminate pulling and tearing of the bituminous mat.
- 8. Unless otherwise directed, placing shall begin along the centerline of areas to be paved on a crowned section or on the high side of areas with a oneway slope. The mixture shall be placed in consecutive adjacent lanes having a minimum width as specified in Clause 3. IA, except where edge lanes require a lesser width to complete the area.
- 9. As far as practical the paving shall continue without stopping. Start-stop procedures shall be avoided.
- 10. The longitudinal joint in one layer shall offset that in the layer immediately below by at least 0.3 m (preferably 0.5 m).
- 11. Transverse joints in one layer shall be offset by at least 0.6 m from transverse joints in the previous layer. Transverse joints in adjacent lanes shall be offset a minimum of 3 m.
- 12. On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the mixture may be spread, raked, and luted by hand tools.

#### E. Grade and Slope Control

- 1. Grade control shall be based on string line or by mobile reference (ski or shoe).
- 2. Slope control shall be based on Electronic Slope Sensors, compatible with the paver equipment.
- 3. The preferred method of grade control for the base layers of the asphalt pavement is by string line. The spacing of the support brackets for the string line shall not exceed 5.0 m at straight portions and 3.5 m in curves.
- 4. The preferred method of grade control for the middle layers is by ski. The length of the ski shall be at least 6 m.
- 5. Ski or string line shall not be used for the final layer. Instead, only a shoe grade follower shall be used.

6. No asphalt pavement shall be placed prior to approval by the Engineer of the grade and slope control measures. Refer also to Clause 3.6 hereof.

#### F. Compaction of Mixture

- 1. After spreading, the mixture shall be thoroughly and uniformly compacted with power rollers. Rolling of the mixture shall begin as soon after spreading as it will bear the roller without undue displacement or hairline cracking.
- 2. Sufficient rollers shall be furnished to handle the output of the plant.
- 3. Rolling shall continue until the surface is of uniform texture and true to grade and cross section, and the required field density is achieved. It is recommended to compact at the highest practical temperature (see 3.1 F).
- 4. To prevent adhesion of the mixture to the steel wheel roller, the wheels shall be kept properly (but not excessively) moistened.
- 5. When pneumatic tire rollers are used after the steel wheel roller, they shall not be allowed to start rolling until the surface is completely dry (hot and dry rolling).
- 6. The speed of the roller shall, at all times, be sufficiently slow to avoid displacement of the hot mixture. Any displacement occurring as a result of reversing the roller or from any other cause shall be corrected at once by raking and applying fresh mixture.
- 7. In areas not accessible to the roller, the mixture shall be thoroughly compacted with hot hand tampers.
- 8. Any mixture, which becomes loose and broken, mixed with dirt, or in any way defective, shall be removed and replaced with fresh hot mixture and immediately compacted to conform to the surrounding area Skin patching and hand working shall not be allowed.

#### G. Joints

- 1. The formation of all joints shall be made in such a manner as to ensure a continuous bond between old and new sections of the course. All joints shall present the same texture and smoothness as
  - other sections of the course.
- 2. When a new lane is to be placed adjacent to a cold lane, the longitudinal joint between the lanes shall be constructed as specified in the Section for Hot-to-Cold Joint Preparation (Section 32 12 73.13).
- 3. A cold lane is defined as such when the surface temperature of the already laid asphalt mix is less than 80 0 C.

#### H. Shaping Edges

1. While the surface is being compacted and finished, the Contractor shall carefully trim the outside edges of the pavement to the proper alignment.

#### 3.6 <u>MATERIAL ACCEPTANCE</u>

# A. Sampling and Testing

1. All sampling and testing of plant produced and field placed material necessary to determine conformance with the requirements specified in this Section will be on a lot basis unless indicated differently. Each lot shall consist of a one-day production or 6,000 rn2, whichever is less as agreed with the Engineer. Each lot shall be subdivided into 4 approximately equal sub-lots for random sampling,

- 2. All sampling and testing shall be executed by the Contractor. Random sampling shall be as agreed with the Engineer.
- 3. The Engineer reserves the right to increase or decrease the frequency of sampling and testing at any moment during production.
- 4. ASTM D 75 shall be followed in sampling coarse and fine aggregate, ASTM C 183 shall be followed in sampling mineral filler.

#### **B.** Routine Tests on Materials during Production

- 1. The Contractor shall perform all quality control procedures described below to control the production and construction process applicable to these specifications.
- 2. Samples of aggregate, filler and binder shall be furnished and tested by the Contractor, as indicated in Table 6, prior to delivery at the job site and prior to the start of and at intervals during production.

Test	Description	Frequency of Tests
1	Grading	Daily
2	Shape: a. two/one fractured faces	each 5,000 tons
	b. flat and elongated pieces	each 5,000 tons
3	Water absorption	each 5,000 tons
4	Sand equivalent	each 2,000 tons
5	Wear	each 5,000 tons
6	Sodium/Magnesium sulphate soundness loss	each 2,000 tons
7	Clay/ friable articles	each 5,000 tons
8	Plasticity index and grading filler	each 100 tons
9	Bitumen	each bulk delivery

**Table 6: Schedule for Quality Control Testing** 

#### C. Routine Tests on Plant Produced Material

- 1. One sample of sufficient plant produced material shall be taken on a random basis at the start of production for every two sub-lots for conducting all test described hereafter.
- 2. The theoretical maximum specific gravity of the un-compacted mixture (Gmm) shall be determined in accordance with ASTM D 2041.
- 3. One set of four (4) Marshall Specimens shall be prepared from each sample at the required number of blows.

- 4. Prior to testing, for each specimen the bulk specific gravity (Gmb) shall be determined in accordance with ASTM D 2726, the percent air voids shall be determined in accordance with ASTM D 3203 and the VMA and VFA shall be determined in accordance with Asphalt Institute MS-2.
- 5. Three specimens per set shall be tested to determine Marshall Stability and flow in accordance with ASTM D 1559.
- 6. One Marshall Specimen shall be retained for record purposes.
- 7. Every three days a sample of sufficient material shall be taken to prepare one additional set of three Marshall Specimens. The specimens shall be tested to determine the Loss of Stability as per 2.4C.7.
- 8. One extraction test shall be performed per sample in accordance with ASTM D 2172 for determination of asphalt content and aggregate gradation in accordance with ASTM C 136 and ASTM C 117. The results of these test shall be submitted to the Engineer within 2 hours after sampling.
- 9. Conduct one test per day of softening point (Tr&b) as per ASTM D 36 and Penetration as per ASTM D 5 on the binder.
- 10. The Contractor shall maintain and keep current, linear control charts indicating the approved target, warning lines at one, two and three times the calculated standard deviation on either side of the target and the individual measurements of the data obtained. As a minimum, control charts shall be established for the test parameters indicated in Table 7.

<b>Test Parameter for Control Charts</b>	Standard Deviation
Bitumen Content	
Percentage passing No. 4 Sieve	to be determined during the field trials and continuously updated as the work
Percentage passing No. 30 Sieve Percentage passing No. 200 Sieve	progresses

#### **Table 7: Linear Control Charts**

- 11. The control charts shall be used as part of the process control, for identifying potential problems before they occur. Adjustments to the process shall be deemed necessary when:
  - a) One (1) individual result outside the 3 x a lines;
  - b) Two (2) consecutive results outside the 2 x a lines
  - C) Three (3)consecutive results outside the 1x q warning line;
  - d) Eleven (11) consecutive results at one side of the target.

#### **Clause 1602B:**

(i)Penetration Grade Bitumen shall be 80/100

(ii)Aggregates shall be Class A

#### Clause 1604B:

Grading Requirements for the asphalt concrete shall be type 1 - 0/14

- (a) Marshall stability = Min 9000
- (b) Flow value = 2 4 mm
- (c) Voids in total mix = 3 5%

#### Clause 2002 - Fencing

#### Chain link fence on reinforced concrete posts

- 1. The fence shall have an overall height of 2.4 M above the ground level. The chain link fence section shall be of a height of 2.4M above ground level, with cranked section of at least 0.475 m with 3 lines of barbed wire on top of the chain link.
- 2. Chain-link shall be 50 mm mesh size. It shall be gauge twelve and half (12.5G) (2.5 mm) high tensile galvanized wire and manufactured in accordance with dimensions and other requirements as stipulated in KS 261: 2013, or equivalent standard.
- 3. Concrete posts shall be pre-cast under ideal controlled conditions. Concrete shall be class 20/20 reinforced with 10mm mild steel square ribbed bars with 8mm stirrups at 350mm center to center.
- 4. The concrete posts shall be cast in approved mild steel moulds and subjected to curing by being immersed in water troughs for at least 7 days. Thereafter, the posts shall be further cured under continuously moist conditions until they achieve the full strength before being transported to site for installation.
- 5. Barbed wire shall consist of the following:
  - Conventional line wires.
  - High tensile galvanized with nominal wire diameter 2.50 mm.
  - To conform to requirements of KS 261: 2013or equivalent standards.
- 6. Line wires shall be 2.5 mm nominal diameter high tensile galvanized straining wire and manufactured in accordance with KS 261: 2013 or equivalent standards. They shall have a minimum tensile strength of 550 Mpa.

#### **SECTION 22-DAYWORKS**

#### **2201** Scope

This specification covers instructions that may be issued by the Engineer as additional or substituted work to be executed on a day work basis by the Contractor or by his sub-contractors.

#### 2202 Standards

All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the Kenyan Standard Specification for Road and Bridge Construction

#### 2203 Measurement and Payments

Measurement and payment for all day works items shall be in accordance with the items listed in the Bill of Quantities, the preamble to Bill of quantities and the specifications above and cover the payment of plant, labour and materials for work executed in accordance with the Engineer's instructions

# **SECTION VII - DRAWINGS**

**Note**: A list of drawings should be inserted here. The actual drawings including Site plans should be annexed in a separate booklet.

SR.NO	DRG.NOS	DESCRIPTION	SCALE	SIZE	Comments
		Layouts			
	L[01]01	Airstrip Layout	1:2500	A1	
	L[01]02	Pavement Cross-Sections Detail	1:2500	A1	
	L[01]03	Runway Layout Profile &Setting out Data	1:2500	A1	
	L[01]04	Runway Layout and Cross-Sections	1:2500	A1	
	L[01]05	Drain Layout and Profile	1:2500	A1	
	L[01]06	Perimeter Fence Layout and Setting out Data	1:2500	A1	
	L[01]07	Containerized Site Office	1:100	A1	
		Details			
	A[01]01	Project Signboard	1:50	A2	
	A[01]02	Standard Culvert Details	1:50	A2	
	A[01]03	Windsock Details	1:50	A2	
	A[01]04	Pit latrine Layout	1:50	A2	
	A[01]05	Standard Fence Details	1:50	A2	
	A[01]06	Security Gate Details	1:50	A2	
	A[01]07	Pedestrian Gate Details	1:50	A3	

# SUPPLEMENTARY INFORMATION

# PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

#### **Section VIII - General Conditions of Contract 1. GENERAL CONDITIONS**

#### 1.1 General Provisions

#### 1.1.1 Definitions

In the Conditions of Contract ("these Conditions"), which include Particular Conditions, Parts A and B, and these General Conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

#### 1.1.2 The Contract

"Bills of Quantities", "Daywork Schedule" and "Schedule of Payment Currencies" mean the documents so named (if any) which are comprised in the Schedules.

"Contract Agreement" means the contract agreement referred to in Sub-Clause 1.6 [Contract Agreement].

"Contract" means the Contract Agreement, the Letter of Acceptance, the Letter of Tender, these Conditions, the Specification, the Drawings, the Schedules, and the further documents (if any) which are listed in the Contract Agreement or in the Letter of Acceptance.

"Drawings" means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Procuring Entity in accordance with the Contract.

"Laws" means all national legislation, statutes, ordinances, and regulations and by-laws of any legally constituted public authority.

"Letter of Acceptance" means the letter of formal acceptance, signed by the contractor and the Procuring Entity, including any annexed memoranda comprising agreements between and signed by both Parties.

"Letter of Tender" means the document entitled letter of tender or letter of tender, which was completed by the Contractor and includes the signed offer to the Procuring Entity for the Works.

"SCC" means the Special Conditions of Contract completed by the Procuring Entity which modify the General Conditions of Contract.

"Schedules" means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Tender, as included in the Contract. Such document may include the Bills of Quantities, data, lists, and schedules of rates and/or prices.

"Specification" means the document entitled specification, as included in the Contract, and any additions and modifications to the specification in accordance with the Contract. Such document specifies the Works.

"Tender" means the Letter of Tender and all other documents which the Contractor submitted with the Letter of Tender, as included in the Contract.

#### 1.1.3 Parties and Persons

"Contractor's Personnel" means the Contractor's Representative and all personnel whom the Contractor utilizes on Site, who may include the staff, labor and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.

"Contractor's Representative" means the person named by the Contract or in the Contractor appointed from time to time by the Contractor under Sub-Clause 4.3 [Contractor's Representative], who acts on behalf of the Contractor.

"Contractor" means the person(s) named as contractor in the Letter of Tender accepted by the Procuring Entity and the legal successors in title to this person(s).

"Engineer" means the person appointed by the Procuring Entity to act as the Engineer for the purposes of the Contract and named in the SCC, or other person appointed from time to time by the Procuring Entity and notified to the Contractor under Sub-Clause 3.4 [Replacement of the Engineer].

"Party" means the Procuring Entity or the Contractor, as the context requires.

- "Procuring Entity" means the Entity named in the Special Conditions of Contract.
- "Procuring Entity's Personnel" means the Engineer, the assistants referred to in Sub-Clause 3.2 [Delegation by the Engineer] and all other staff, labor and other employees of the Engineer and of the Procuring Entity; and any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as Procuring Entity's Personnel.
- "Procuring Entity" means the person named as Procuring Entity in the SCC and the legal successors in title to this person.
- "Subcontractor" means any person named in the Contract as a subcontractor, or any person appointed as a subcontractor, for a part of the Works; and the legal successors in title to each of these persons.

#### 1.1.4 Dates, Tests, Periods and Completion

- "Base Date" means a date 30 day prior to the submission of tenders.
- "Commencement Date" means the date notified under Sub-Clause 8.1 [Commencement of Works].
- "Completion Certificate" means the certificate issued under Sub-Clause 11.9 [Performance

Certificate]. "Day" means a calendar day and "year" means 365 days.

- "Defects Notification Period" means the period for notifying defects in the Works or a Section (as the case may be) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over 365 days except if otherwise stated in the SCC (with any extension under Sub-Clause 11.3 [Extension of Defects Notification Period]), calculated from the date on which the Works or Section is completed as certified under Sub-Clause 10.1[Taking Over of the Works and Sections].
- "Taking-Over Certificate" means a certificate issued under Clause 10 [Procuring Entity's Taking Over].
- "Tests after Completion" means the tests (if any) which are specified in the Contract and which are carried out in accordance with the Specification after the Works or a Section (as the case may be) are taken over by the Procuring Entity.
- "Tests on Completion" means the tests which are specified in the Contract or agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (as the case may be) are taken over by the Procuring Entity.
- "Time for Completion" means the time for completing the Works or a Section (as the case may be) under Sub- Clause 8.2 [Time for Completion], as stated in the SCC (with any extension under Sub-Clause 8.4 [Extension of Time for Completion]), calculated from the Commencement Date.

#### 1.1.5 Money and Payments

- "Accepted Contract Amount" means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.
- "Contract Price" means the price defined in Sub-Clause 14.1 [The Contract Price] and includes adjustments in accordance with the Contract.
- "Cost" means all expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.
- **"Final Payment Certificate"** means the payment certificate issued under Sub-Clause 14.13 [Issue of Final Payment Certificate].
- **"Final Statement"** means the statement defined in Sub-Clause 14.11 [Application for Final Payment Certificate].
- **"Foreign Currency"** means acurrency in which part (orall) of the Contract Price is payable, but not the Local Currency.
- "Interim Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and

Payment], other than the Final Payment Certificate.

- "Local Currency" means the currency of the Country.
- "Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment].
- "Provisional Sum" means a sum (if any) which is specified in the Contract as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services under Sub-Clause 13.5 [Provisional Sums].
- "Retention Money" means the accumulated retention moneys which the Procuring Entity retains under Sub-Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].
- **"Statement"** means a statement submitted by the Contractor as part of an application, under Clause 14 [Contract Price and Payment], for a payment certificate.

#### 1.1.6 Works and Goods

- "Contractor's Equipment" means all apparatus, machinery, vehicles and other things required for the execution and completion of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Procuring Entity's Equipment (if any), Plant, Materials and any other things intended to form or forming part of the Permanent Works.
- "Goods" means Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.
- "Materials" means things of all kinds (other than Plant) intended to form or forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.
- "Permanent Works" means the permanent works to be executed by the Contractor under the Contract.
- "Plant" means the apparatus, machinery and other equipment intended to form or forming part of the Permanent Works, including vehicles purchased for the Procuring Entity and relating to the construction or operation of the Works.
- "Section" means a part of the Works specified in the SCC as a Section (if any).
- "Temporary Works" means all temporary works of every kind (other than Contractor's Equipment) required on Site for the execution and completion of the Permanent Works and the remedying of any defects.
- "Works" mean the Permanent Works and the Temporary Works, or either of them as appropriate.

#### 1.1.7 Other Definitions

- "Contractor's Documents" means the calculations, computer programs and other software, drawings, manuals, models and other documents of a technical nature (if any) supplied by the Contractor under the Contract.
- "Country" means Kenya as the country in which the Site is located, where the Permanent Works are to be executed.
- "Force Majeure" is defined in Clause 19 [Force Majeure].
- "Laws" means all national (or state) legislation, statutes, ordinances and other laws, and regulations and bylaws of any legally constituted public authority.
- "Notice of Dissatisfaction" means the notice given by either Party to the other under Sub-Clause 20.4 indicating its dissatisfaction and intention to commence arbitration.
- "Performance Security" means the security (or securities, if any) under Sub-Clause 4.2 [Performance Security].
- "Procuring Entity's Equipment" means the apparatus, machinery and vehicles (if any) made available by the Procuring Entity for the use of the Contractor in the execution of the Works, as stated in the Specification;

but does not include Plant which has not been taken over by the Procuring Entity.

"Site" means the places where the Permanent Works are to be executed, including storage and working areas, and to which Plant and Materials are to be delivered, and any other places as may be specified in the Contract as forming part of the Site.

"Unforeseeable" means not reasonably foreseeable by an experienced contractor by the Base Date.

"Variation" means any change to the Works, which is instructed or approved as a variation under Clause 13 [Variations and Adjustments].

## 12 Interpretation

In the Contract, except where the context requires otherwise:

- a) Words indicating one gender include all genders;
- b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;
- d) "written" or "inwriting" means hand-written, type-written, printed or electronically made, and resulting in a permanent record; and
- e) the word "tender" is synonymous with "tender" and "tenderer" with "Tenderer" and the words "tender documents" with "tendering documents."

#### 13 Communications

- 1.3.1 Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:
  - a) In writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the **SCC**; and
  - b) delivered, sent or transmitted to the address for the recipient's communications as stated in the SCC. However:
    - i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and
    - ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued.
- 1.3.2 Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Engineer or the other Party, as the case may be.

## 14 Law and Language

- 1.4.1 The Contract shall be governed by the **laws of Kenya**.
- **1.4.2** The ruling language of the Contract shall be the **English Language.**

### 15 Priority of Documents

- 1.5.1 The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:
  - a) The Contract Agreement,
  - b) the Form of Tender,
  - c) The Letter of Acceptance,
  - d) the Particular Conditions–Part A,
  - e) the Particular Conditions—Part B
  - f) the General Conditions of Contract
  - g) the Specifications and
  - h) the Drawings;
  - i) the Bills of Ouantities and

- j) the Schedules and any other documents forming part of the Contract.
- 1.5.2 If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.

### 1.6 Contract Agreement

The Parties shall enter into a Contract Agreement within 14 days after the Contractor receives the Letter of Acceptance, unless the Particular Conditions establish otherwise. The Contract Agreement shall be based upon the form annexed to the Particular Conditions. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Procuring Entity.

### 1.7 Assignment

Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, either Party:

- a) May assign the whole or any part with the prior agreement of the other Party, at the sole discretion of such other Party, and
- b) may, as security in favor of a Procuring Entity or financial institution, assign its right to any moneys due, or to become due, under the Contract.

### 18 Care and Supply of Documents

- 1.8.1 The Specification and Drawings shall be in the custody and care of the Procuring Entity. Unless otherwise stated in the Contract, two copies of the Contract and of each subsequent Drawing shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.
- 1.8.2 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over by the Procuring Entity. Unless otherwise stated in the Contract, the Contractor shall supply to the Engineer
- 1.8.3 The Contractor shall keep, on the Site, a copy of the Contract, publications named in the Specification, the Contractor's Documents (if any), the Drawings and Variations and other communications given under the Contract. The Procuring Entity's Personnel shall have the right of access to all these documents at all reasonable times.
- 1.8.4 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.

# 19 Delayed Drawings or Instructions

1.9.1 The Contractor shall give notice to the Engineer whenever the Works are likely to be delayed or disrupted if any necessary drawing or instruction is not issued to the Contractor within a particular time, which shall be reasonable. The notice shall include details of the necessary drawing or instruction, details of why and by when it should be issued, and the nature and amount of the delay or disruption likely to be suffered if it is late.

If the Contractor suffers delay and/or incurs Cost as a result of a failure of the Engineer to issue the notified drawing or instruction within a time which is reasonable and is specified in the notice with supporting details, the Contractor shall give a further notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:

- a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 1.9.2 After receiving this further notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 1.9.3 However, if and to the extent that the Engineer's failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, Cost or profit.

## 1.10 Procuring Entity's Use of Contractor's Documents

1.10.1 As between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor. The Contractor shall be deemed (by signing the Contract) to give to the Procuring Entity a non-terminable transferable non-exclusive royalty-free license tocopy, use and communicate the Contractor's Documents, including making

and using modifications of them. This license shall:

- a) apply throughout the actual or intended working life (whichever is longer) of the relevant parts of the Works,
- b) entitle any person in proper possession of the relevant part of the Works to copy, use and communicate the Contractor's Documents for the purposes of completing, operating, maintaining, altering, adjusting, repairing and demolishing the Works, and
- c) in the case of Contractor's Documents which are in the form of computer programs and other software, permit their use on any computer on the Site and other places as envisaged by the Contract, including replacements of any computers supplied by the Contractor.
- 1.10.2 The Contractor's Documents and other design documents made by (or on behalf of) the Contractor shall not, without the Contractor's consent, be used, copied or communicated to a third party by (or on behalf of) the Procuring Entity for purposes other than those permitted under this Sub-Clause.

# 1.11 Contractor's Use of Procuring Entity's Documents

As between the Parties, the Procuring Entity shall retain the copyright and other intellectual property rights in the Specification, the Drawings and other documents made by (or on behalf of) the Procuring Entity. The Contractor may, at his cost, copy, use, and obtain communication of these documents for the purposes of the Contract. They shall not, without the Procuring Entity's consent, be copied, used or communicated to a third party by the Contractor, except as necessary for the purposes of the Contract.

#### 1.12 Confidential Details

The Contractor's and the Procuring Entity's Personnel shall disclose all such confidential and other information as may be reasonably required in order to verify compliance with the Contract and allow its proper implementation.

# 1.13 Compliance with Laws

The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Particular Conditions:

- a) The Procuring Entity shall have obtained (or shall obtain) the planning, zoning, building permit or similar permission for the Permanent Works, and any other permissions described in the Specification as having been (or to be) obtained by the Procuring Entity; and the Procuring Entity shall indemnify and hold the Contractor harmless against and from the consequences of any failure to do so; and
- b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licenses and approvals, as required by the Laws in relation to the execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Procuring Entity harmless against and from the consequences of any failure to do so, unless the Contractor is impeded to accomplish these actions and shows evidence of its diligence.

### 1.14 Joint and Several Liability

If the Contractor constitutes (under applicable Laws) a joint venture, consortium or other unincorporated grouping of two or more persons:

- a) These persons shall be deemed to be jointly and severally liable to the Procuring Entity for the performance of the Contract;
- b) these persons shall notify the Procuring Entity of their leader who shall have authority to bind the Contractor and each of these persons; and
- c) the Contractor shall not alter its composition or legal status without the prior consent of the Procuring Entity.

# 1.15 Inspections and Audit by the Procuring Entity

Pursuant to paragraph 2.2 e. of Appendix B to the General Conditions, the Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the Procuring Entity and/or persons appointed by the Procuring Entity to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Procuring Entity if requested by the Procuring Entity. The Contractor's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 15.6 (Fraud and Corruption) which provides, interalia, that acts

intended to materially impede the exercise of the Procuring Entity's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Procuring Entity's prevailing sanctions procedures).

### 2. THE PROCURING ENTITY

# 21 Right of Access to the Site

- 21.1 The Procuring Entity shall give the Contractor right of access to, and possession of, all parts of the Site within the time (or times) stated in the SCC. The right and possession may not be exclusive to the Contractor. If, under the Contract, the Procuring Entity is required to give (to the Contractor) possession of any foundation, structure, plant or means of access, the Procuring Entity shall do so in the time and manner stated in the Specification. However, the Procuring Entity may withhold any such right or possession until the Performance Security has been received.
- If no such time is stated in the **SCC**, the Procuring Entity shall give the Contractor right of access to, and possession of, the Site within such times as required to enable the Contractor to proceed without disruption in accordance with the programme submitted under Sub-Clause 8.3 [Programme].
- 213 If the Contractor suffers delay and/or incurs Cost as aresult of a failure by the Procuring Entity to give any such right or possession within such time, the Contractor shall give notice to the Engineer and shall been titled subject toSub-Clause20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- However, if and to the extent that the Procuring Entity's failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, Cost or profit.

### 22 Permits, Licenses or Approvals

The Procuring Entity shall provide, at the request of the Contractor, such reasonable assistance as to allow the Contractor to obtain properly:

- a) Copies of the Laws of the Country which are relevant to the Contract but are not readily available, and
- b) Any permits, licenses or approvals required by the Laws of the Country:
  - i) Which the Contractor is required to obtain under Sub-Clause 1.13 [Compliance with Laws],
  - ii) For the delivery of Goods, including clearance through customs, and
  - iii) For the export of Contractor's Equipment when it is removed from the Site.

### 23 Procuring Entity's Personnel

The Procuring Entity shall be responsible for ensuring that the Procuring Entity's Personnel and the Procuring Entity's other contractors on the Site:

- a) co-operate with the Contractor's efforts under Sub-Clause 4.6 [Co-operation], and
- b) take actions similar to those which the Contractor is required to take under sub-paragraphs (a), (b) and (c) of Sub-Clause 4.8 [Safety Procedures] and under Sub-Clause 4.18 [Protection of the Environment].

### 24 Procuring Entity's Financial Arrangement

24.1 The Procuring Entity shall submit, before the Commencement Date and there after within 30 days after receiving any request from the Contractor, reasonable evidence that financial arrangements have been made and are being maintained which will enable the Procuring Entity to pay the Contract Price punctually (as estimated at that time) in accordance with Clause 14 [Contract Price and Payment]. Before the Procuring Entity makes any material change to his financial arrangements, the Procuring Entity shall give notice to the Contractor with detailed particulars.

In addition, if the Procuring Entity has notified to the Contractor that the Procuring Entity has suspended disbursements under its loan, which finances in whole or in part the execution of the Works, the Procuring Entity shall give notice of such suspension to the Contractor with detailed particulars, including the date of such notification, with a copy to the 2.4.3 Engineer, within 7 days of the Procuring Entity having received the suspension notification from the Procuring Entity. If alternative funds will be available in appropriate currencies to the Procuring Entity to continue making payments to the Contractor beyond a date 60 day after the date of Procuring Entity notification of the suspension, the Procuring Entity shall provide reasonable evidence in his notice of the extent to which such funds will be available.

## 25 Procuring Entity's Claims

- 25.1 If the Procuring Entity considers itself to be entitled to any payment under any Clause of these Conditions or otherwise in connection with the Contract, and/or to any extension of the Defects Notification Period, the Procuring Entity or the shall give notice and particulars to the Contractor. However, notice is not required for payments due under Sub-Clause 4.19 [Electricity, Water and Gas], under Sub-Clause 4.20 [Procuring Entity's Equipment and Free-Issue Materials], or for other services requested by the Contractor.
- The notice shall be given as soon as practicable and no longer than 30 days after the Procuring Entity became aware, or should have become aware, of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.
- 253 The particulars shall specify the Clause or other basis of the claim and shall include substantiation of the amount and/or extension to which the Procuring Entity considers itself to be entitled in connection with the Contract. The Engineer shall then proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the amount (if any) which the Procuring Entity is entitled to be paid by the Contractor, and/or(ii) the extension (if any) of the Defects Notification Period in accordance with Sub-Clause 11.3 [Extension of Defects Notification Period].

# 3. THE ENGINEER

# 3.1 Engineer's Duties and Authority

3.1.1 The Procuring Entity shall appoint the Engineer who shall carry out the duties assigned to him in the Contract. The Engineer's staff shall include suitably qualified engineers and other professionals who are competent to carry out these duties.

The Engineer shall have no authority to amend the Contract.

The Engineer may exercise the authority attributable to the Engineer as specified in or necessarily to be implied from the Contract. If the Engineer is required to obtain the approval of the Procuring Entity before exercising a specified authority, the requirements shall be as stated in the Particular Conditions. The Procuring Entity shall promptly inform the Contractor of any change to the authority attributed to the Engineer.

- 3.12 However, whenever the Engineer exercises a specified authority for which the Procuring Entity's approval is required, then (for the purposes of the Contract) the Procuring Entity shall be deemed to have given approval. Except as otherwise stated in these Conditions:
  - a) Whenever carrying out duties or exercising authority, specified in or implied by the Contract, the Engineer shall be deemed to act for the Procuring Entity; the Engineer has no authority to relieve either Party of any duties, obligations or
  - b) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Engineer (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, including responsibility for errors, omissions, discrepancies and non-compliances; and
  - c) any act by the Engineer in response to a Contractor's request except as otherwise expressly specified shall be notified in writing to the Contractor within 14 days of receipt.
- 3.12 The following provisions shall apply; The Engineer shall obtain the specific approval of the Procuring Entity before taking action under the-following Sub-Clauses of these Conditions:
  - a) Sub-Clause 4.12: agreeing or determining an extension of time and/or additional cost.
  - b) Sub-Clause13.1: instructing a Variation, except;
    - i) In an emergency situation as determined by the Engineer, or
    - ii) If such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the SCC.

- c) Sub-Clause13.3: Approving a proposal for Variation submitted by the Contractor in accordance with Sub Clause13.1or13.2.
- d) Sub-Clause 13.4: Specifying the amount payable in each of the applicable currencies.
- 3.13 Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contract or to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Procuring Entity, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Procuring Entity.

# 3.2 Delegation by the Engineer

- 32.1 The Engineer may from time to time assign duties and delegate authority to assistants, and may also revoke such assignment or delegation. These assistants may include a resident engineer, and/or independent inspectors appointed to inspect and/or test items of Plant and/or Materials. The assignment, delegation or revocation shall be in writing and shall not take effect until copies have been received by both Parties. However, unless otherwise agreed by both Parties, the Engineer shall not delegate the authority to determine any matter in accordance with Sub-Clause3.5 [Determinations].
- Each assistant, to whom duties have been assigned or authority has been delegated, shall only be authorized to issue instructions to the Contractor to the extent defined by the delegation. Any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by an assistant, in accordance with the delegation, shall have the same effect as though the act had been an act of the Engineer. However:
  - a) Any failure to disapprove any work, Plant or Materials shall not constitute approval, and shall therefore not prejudice the right of the Engineer to reject the work, Plant or Materials;
  - b) if the Contractor questions any determination or instruction of an assistant, the Contractor may refer the matter to the Engineer, who shall promptly confirm, reverse or vary the determination or instruction.

# 3.3 Instructions of the Engineer

- 3.3.1 The Engineer may issue to the Contractor (at any time) instructions and additional or modified Drawings which may be necessary for the execution of the Works and the remedying of any defects, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer, or from an assistant to whom the appropriate authority has been delegated under this Clause. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.
- 332 The Contractor shall comply with the instructions given by the Engineer or delegated assistant, on any matter related to the Contract. Whenever practicable, their instructions shall be given in writing. If the Engineer or a delegated assistant:
  - a) Gives an oral instruction,
  - b) receives a written confirmation of the instruction, from (or on behalf of) the Contractor, within two working days after giving the instruction, and
  - c) does not reply by issuing a written rejection and/or instruction within two working days after receiving the confirmation, then the confirmation shall constitute the written instruction of the Engineer or delegated assistant (as the case may be).

### 3.4 Replacement of the Engineer

3.4.1 If the Procuring Entity intends to replace the Engineer, the Procuring Entity shall, not less than 21 days before the intended date of replacement, give notice to the Contractor of the name, address and relevant experience of the intended replacement Engineer. If the Contractor considers the intended replacement Engineer to be unsuitable, he has the right to raise objection against him by notice to the Procuring Entity, with supporting particulars, and the Procuring Entity shall give full and fair consideration to this objection.

### 3.5 Determinations

35.1 Whenever these Conditions provide that the Engineer shall proceed in accordance with this Sub-Clause 3.5 to agree or determine any matter, the Engineer shall consult with each Party in an endeavor to reach agreement. If agreement is not achieved, the Engineer shall make a fair determination in accordance with the Contract,

taking due regard of all relevant circumstances.

352 The Engineer shall give notice to both Parties of each agreement or determination, with supporting particulars, within 30 days from the receipt of the corresponding claim or request except when otherwise specified. Each Party shall give effect to each agreement or determination unless and until revised under Clause 20 [Claims, Disputes and Arbitration].

### 4. THE CONTRACTOR

### 4.1 Contractor's General Obligations

- 4.1.1 The Contractor shall design (to the extent specified in the Contract), execute and complete the Works in accordance with the Contract and with the Engineer's instructions, and shall remedy any defects in the Works.
- 4.12 The Contractor shall provide the Plant and Contractor's Documents specified in the Contract, and all Contractor's Personnel, Goods, consumables and other things and services, whether of a temporary or permanent nature, required in and for this design, execution, completion and remedying of defects.
- 4.13 All equipment, material, and services to be incorporated in or required for the Works shall have their origin in any eligible source country as defined by the Procuring Entity.
- 4.14 The Contractor shall be responsible for the adequacy, stability and safety of all Site operations and of all methods of construction. Except to the extent specified in the Contract, the Contractor (i) shall be responsible for all Contractor's Documents, Temporary Works, and such design of each item of Plant and Materials as is required for the item to be in accordance with the Contract, and (ii) shall not otherwise be responsible for the design or specification of the Permanent Works.
- 4.15 The Contractor shall, whenever required by the Engineer, submit details of the arrangements and methods which the Contractor proposes to adopt for the execution of the Works. No significant alteration to these arrangements and methods shall be made without this having previously been notified to the Engineer.
- 4.1.6 The Contractor shall not commence any Works, including mobilization and/or pre-construction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrowpits), unless the Engineer is satisfied that appropriate measures are in place to address environmental, social, health and safety risks and impacts.
- 4.1.7 If the Contract specifies that the Contract or shall design any part of the Permanent Works, then unless otherwise stated in the Particular Conditions:
  - a) The Contractor shall submit to the Engineer the Contractor's Documents for this part in accordance with the procedures specified in the Contract;
  - b) These Contractor's Documents shall be in accordance with the Specification and Drawings, shall be written in the language for communications defined in Sub-Clause 1.4 [Law and Language], and shall include additional information required by the Engineer to add to the Drawings for co-ordination of each Party's designs;
  - c) The Contractor shall be responsible for this part and it shall, when the Works are completed, be fit for such purposes for which the part is intended as are specified in the Contract; and
  - d) Prior to the commencement of the Tests on Completion, the Contractor shall submit to the Engineer the "as-built" documents and, if applicable, operation and maintenance manuals in accordance with the Specification and insufficient detail for the Procuring Entity to operate, maintain, dismantle, reassemble, adjust and repair this part of the Works. Such part shall not be considered to be completed for they purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until these documents and manuals have been submitted to the Engineer.

### 4.2 Performance Security

- Performance security shall not be required for contracts estimated to cost less than Kenya shillings five million shillings.
- The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the **SCC** and denominated in the currency (ies) of the Contractor in a freely convertible currency acceptable to the Procuring Entity. If an amount is not stated in the **SCC**, this Sub-Clause shall not apply.
- 423 The Contractor shall deliver the Performance Security to the Procuring Entity within 14 days after receiving

the Letter of Acceptance and shall send a copy to the Engineer. The Performance Security shall be issued by a reputable Procuring Entity or financial institution selected by the Contract or and shall be in the form annexed to the Particular Conditions, as stipulated by the Procuring Entity in the SCC, or in another form approved by the Procuring Entity.

- The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects. If the terms of the Performance Security specify its expiry date, and the Contractor has not become entitled to receive the Performance Certificate by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the Performance Security until the Works have been completed and any defects have been remedied.
- The Procuring Entity shall not make a claim under the Performance Security, except for amounts to which the Procuring Entity is entitled under the Contract.

The Procuring Entity shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the Performance Security to the extent to which the Procuring Entity was not entitled to make the claim.

- The Procuring Entity shall return the Performance Security to the Contractor within 21 days after receiving a copy of the Performance Certificate.
- Without limitation to the provisions of the rest of this Sub-Clause, whenever the Engineer determines an addition or are duction to the Contract Price as a result of a change in cost and/or legislation, or as a result of a Variation, amounting to more than 25 percent of the portion of the Contract Price payable in a specific currency, the Contractor shall at the Engineer's request promptly increase, or may decrease, as the case may be, the value of the Performance Security in that currency by an equal percentage.

### 43 Contractor's Representative

43.1 The Contractor shall appoint the Contractor's Representative and shall give him all authority necessary to act on the Contractor's behalf under the Contract.

Unless the Contractor's Representative is named in the Contract, the Contractor shall, prior to the Commencement Date, submit to the Engineer for consent the name and particulars of the person the Contractor proposes to appoint as Contractor's Representative. If consent is withheld or subsequently revoked in terms of Sub-Clause 6.9 [Contractor's Personnel], or if the appointed person fails to act as Contractor's Representative, the Contractor shall similarly submit the name and particulars of another suitable person for such appointment.

The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint a replacement.

- 432 The whole time of the Contractor's Representative shall be given to directing the Contractor's performance of the Contract. If the Contractor's Representative is to be temporarily absent from the Site during the execution of the Works, a suitable replacement person shall be appointed, subject to the Engineer's prior consent, and the Engineer shall be notified accordingly.
- The Contractor's Representative shall, on behalf of the Contractor, receive instructions under Sub-Clause 3.3 [Instructions of the Engineer].

The Contractor's Representative may delegate any powers, functions and authority to any competent person, and may at anytime revoke the delegation. Any delegation or revocation shall not take effect until the Engineer has received prior notice signed by the Contractor's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.

434 The Contractor's Representative shall be fluent in the language for communications defined in Sub-Clause 1.4 [Law and Language]. If the Contractor's Representative's delegates are not fluent in the said language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

# 4.4 Subcontractors

4.4.1 The Contractor shall not subcontract the whole of the Works.

The Contractor shall be responsible for the acts or defaults of any Subcontractor, his agents or employees, as

if they were the acts or defaults of the Contractor. Unless otherwise stated in the Particular Conditions:

- a) The Contractor shall not be required to obtain consent to suppliers solely of Materials, or to a subcontract for which the Subcontractor is named in the Contract;
- b) The prior consent of the Engineer shall be obtained to other proposed Sub contractors;
- c) the Contractor shall give the Procuring entity not less than 14 days' notice of the intended date of the commencement of each Subcontractor's work, and of the commencement of such work on the Site; and
- d) each subcontract shall include provisions which would entitle the Procuring Entity to require the subcontract to be assigned to the Procuring Entity under Sub-Clause 4.5 [Assignment of Benefit of Subcontract] (if or when applicable) or in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity].
- The Contractor shall ensure that the requirements imposed on the Contractorby Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.
- Where practicable, the Contractor shall give fair and reasonable opportunity for contractors from the Country to be appointed as Subcontractors.

# 45 Assignment of Benefit of Subcontract

If a Subcontractor's obligations extend beyond the expiry date of the relevant Defects Notification Period and the Engineer, prior to this date, instructs the Contractor to assign the benefit of such obligations to the Procuring Entity, then the Contractor shall do so. Unless otherwise stated in the assignment, the Contractor shall have no liability to the Procuring Entity for the work carried out by the Subcontractor after the assignment takes effect.

## 4.6 Co-operation

- 4.6.1 The Contractor shall, as specified in the Contract or as instructed by the Engineer, allow appropriate opportunities for carrying out work to:
  - a) The Procuring Entity's Personnel,
  - b) Any other contractors employed by the Procuring Entity, and
  - c) The personnel of any legally constituted public authorities, who may be employed in the execution on or near the Site of any work not included in the Contract.
- Any such instruction shall constitute a Variation if and to the extent that it causes the Contractor to suffer delays and/or to incur Unforeseeable Cost. Services for these personnel and other contractors may include the use of Contractor's Equipment, Temporary Works or access arrangements which are the responsibility of the Contractor.

If, under the Contract, the Procuring Entity is required to give to the Contractor possession of any foundation, structure, plant or means of access in accordance with Contractor's Documents, the Contractor shall submit such documents to the Engineer in the time and manner stated in the Specification.

# 4.7 Setting Out

47.1 The Contractor shall set out the Works in relation to original points, lines and levels of reference specified in the Contractor notified by the Engineer. The Contractor shall be responsible for the correct positioning of all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works.

The Procuring Entity shall be responsible for any errors in these specified or notified items of reference, but the Contractor shall use reasonable efforts to verify their accuracy before they are used.

- 472 If the Contractor suffers delay and/or incurs Cost from executing work which was necessitated by an error in these items of reference, and an experienced contractor could not reasonably have discovered such error and avoided this delay and/or Cost, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 4.73 After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent the error could not reasonably have been discovered.

and (ii) the matters described in sub-paragraphs (a) and (b) above related to thise.

# 48 Safety Procedures

The Contractor shall:

- a) Comply with all applicable safety regulations,
- b) Take care for the safety of all persons entitled to be on the Site,
- c) Use reasonable efforts to keep the Site and Works clear of unnecessary obstructions as to avoid danger to these persons,
- d) provide fencing, lighting, guarding and watching of the Works until completion and taking over under Clause10 [Procuring Entity's Taking Over], and
- e) provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land.

# 49 Quality Assurance

The Contractor shall institute a quality assurance system to demonstrate compliance with the requirements of the Contract. The system shall be in accordance with the details stated in the Contract. The Engineer shall be entitled to audit any aspect of the system.

Details of all procedures and compliance documents shall be submitted to the Engineer for information before each design and execution stage is commenced. When any document of a technical nature is issued to the Engineer, evidence of the prior approval by the Contractor itself shall be apparent on the document itself. Compliance with the quality assurance system shall not relieve the Contractor of any of his duties, obligations or responsibilities under the Contract.

#### 4.10 Site Data

The Procuring Entity shall have made available to the Contractor for his information, prior to the Base Date, all relevant data in the Procuring Entity's possession on sub-surface and hydrological conditions at the Site, including environmental aspects. The Procuring Entity shall similarly make available to the Contract or all such data which come into the Procuring Entity's possession after the Base Date. The Contractor shall be responsible for interpreting all such data.

To the extent which was practicable (taking account of cost and time), the Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works. To the same extent, the Contractor shall be deemed to have inspected and examined the Site, its surroundings, the above data and other available information, and to have been satisfied before submitting the Tender as to all relevant matters, including (without limitation):

- a) The form and nature of the Site, including sub-surface conditions,
- b) The hydrological and climatic conditions,
- c) The extent and nature of the work and Goods necessary for the execution and works and the remedying of any defects,
- d) The Laws, procedures and labor practices of the Country, and
- e) The Contractor's requirements for access, accommodation, facilities, personnel, power, transport, water and other services.

# 4.11 Sufficiency of the Accepted Contract Amount

- 4.11.1 The Contractor shall be deemed to:
  - a) Have satisfied itself as to the correctness and sufficiency of the Accepted Contract Amount, and
  - b) Have based the Accepted Contract Amount on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant matters referred to in Sub-Clause 4.10 [Site Data].
- 4.112 Unless otherwise stated in the Contract, the Accepted Contract Amount covers all the Contractor's obligations under the Contract (including those under Provisional Sums, if any) and all things necessary for the proper execution and completion of the Works and the remedying of any defects.

# **4.12** Unforeseeable Physical Conditions

4.12.1 In this Sub-Clause, "physical conditions" means natural physical conditions and man-made and other physical

obstructions and pollutants, which the Contractor encounters at the Site when executing the Works, including sub-surface and hydrological conditions but excluding climatic conditions.

4.122 If the Contractor encounters adverse physical conditions which he considers to have been Unforeseeable, the Contractor shall give notice to the Engineer as soon as practicable.

This notice shall describe the physical conditions, so that they can be inspected by the Engineer, and shall set out the reasons why the Contractor considers them to be Unforeseeable. The Contractor shall continue executing the Works, using such proper and reasonable measures as are appropriate for the physical conditions, and shall comply with any instructions which the Engineer may give. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.

- 4.123 If and to the extent that the Contractor encounters physical conditions which are Unforeseeable, gives such a notice, and suffers delay and/or incurs Cost due to these conditions, the Contractor shall be entitled subject to notice under Sub-Clause 20.1 [Contractor's Claims] to:
  - a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) Payment of any such Cost, which shall be included in the Contract Price.
- 4.124 Upon receiving such notice and inspecting and/or investigating these physical conditions, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent these physical conditions were Unforeseeable, and (ii) the matters described in sub-paragraphs (a) and (b) above related to this extent.
- 4.125 However, before additional Cost is finally agreed or determined under sub-paragraph (ii), the Engineer may also review whether other physical conditions in similar parts of the Works (if any) were more favorable than could reasonably have been foreseen when the Contractor submitted the Tender. If and to the extent that thesemore favorable conditions were encountered, the Engineer may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the reductions in Cost which were due to these conditions, which may be included (as deductions) in the Contract Price and Payment Certificates. However, the net effect of all adjustments under sub-paragraph (b) and all these reductions, for all the physical conditions encountered in similar parts of the Works, shall not result in any reduction in the Contract Price.
- 4.126 The Engineer shall take account of any evidence of the physical conditions foreseen by the Contractor when submitting the Tender, which shall be made available by the Contractor, but shall not be bound by the Contractor's interpretation of any such evidence.

# 4.13 Rights of Way and Facilities

Unless otherwise specified in the Contract the Procuring Entity shall provide effective access to and possession of the Site including special and/or temporary rights-of-way which are necessary for the Works. The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities outside the Site which he may require for the purposes of the Works.

### 4.14 Avoidance of Interference

The Contractor shall not interfere unnecessarily or improperly with:

- a) The convenience of the public, or
- b) The access to and use and occupation of all roads and footpaths, irrespective of whether they are public or in the possession of the Procuring Entity or of others.

The Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from any such unnecessary or improper interference.

### 4.15 Access Route

The Contractors hall be deemed to have been satisfied as to the suitability and availability of access routes to the Site at Base Date. The Contractors hall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the Contractor's Personnel. These efforts shall include the proper use of appropriate vehicles and routes.

Except as otherwise stated in these Conditions:

a) The Contractor shall (as between the Parties) be responsible for any maintenance which may be required

- for his use of access routes:
- b) the Contractor shall provide all necessary signs or directions along access routes, and shall obtain any permission which may be required from the relevant authorities for his use of routes, signs and directions;
- c) the Procuring Entity shall not be responsible for any claims which may arise from the use or otherwise of any access route;
- d) the Procuring Entity does not guarantee the suitability or availability of particular access routes; and
- e) Costs due to non-suitability or non-availability, for the use required by the Contractor, of access routes shall be borne by the Contractor.

## **4.16** Transport of Goods

Unless otherwise stated in the Particular Conditions:

- a) The Contractor shall give the Engineer not less than 21 days' notice of the date on which any Plant or a major item of other Goods will be delivered to the Site;
- b) the Contractor shall be responsible for packing, loading, transporting, receiving, unloading, storing and protecting all Goods and other things required for the Works; and
- c) the Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from the transport of Goods, and shall negotiate and pay all claims arising from their transport.

# 4.17 Contractor's Equipment

The Contractor shall be responsible for all Contractor's Equipment. When brought onto the Site, Contractor's Equipment shall be deemed to be exclusively intended for the execution of the Works. The Contractor shall not remove from the Site any major items of Contractor's Equipment without the consent of the Engineer. However, consent shall not be required for vehicles transporting Goods or Contractor's Personnel off Site.

### 4.18 Protection of the Environment

The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.

The Contractor shall ensure that emissions, surfaced is charges and effluent from the Contractor's activities shall not exceed the values stated in the Specification or prescribed by applicable Laws.

# 4.19 Electricity, Water and Gas

4.19.1 The Contractor shall, except as stated below, be responsible for the provision of all power, water and other services he may require for his construction activities and to the extent defined in the Specifications, for the tests.

The Contractor shall be entitled to use for the purposes of the Works such supplies of electricity, water, gas and other services as may be available on the Site and of which details and prices are given in the Specification. The Contractor shall, at his risk and cost, provide any apparatus necessary for his use of these services and for measuring the quantities consumed.

4.192 The quantities consumed and the amounts due (at these prices) for such services shall be agreed or determined by the Engineer in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause 3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.

### 420 Procuring Entity's Equipment and Free-Issue Materials

- 420.1 The Procuring Entity shall make the Procuring Entity's Equipment (if any) available for the use of the Contractor in the execution of the Works in accordance with the details, arrangements and prices stated in the Specification. Unless otherwise stated in the Specification:
  - a) The Procuring Entity shall be responsible for the Procuring Entity's Equipment, except that
  - b) the Contractor shall be responsible for each item of Procuring Entity's Equipment whilst any of the Contractor's Personnel is operating it, driving it, directing it or in possession or control of it.
- 4202 The appropriate quantities and the amounts due (at such stated prices) for the use of Procuring Entity's Equipment shall be agreed or determined by the Engineer in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause 3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.

The Procuring Entity shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the Specification. The Procuring Entity shall, at his risk and cost, provide these materialsc at the time and place specified in the Contract. The Contractor shall then visually inspect them and shall promptly give notice to the Engineer of any shortage, defect or default in these materials. Unless otherwise agreed by both Parties, the Procuring Entity shall immediately rectify the notified shortage, defect or default.

4203 After this visual inspection, the free-issue materials shall come under the care, custody and control of the Contractor. The Contractor's obligations of inspection, care, custody and control shall not relieve the Procuring Entity of liability for any shortage, defect or default not apparent from a visual inspection.

## **4.21** Progress Reports

- 421.1 Unless otherwise stated in the Particular Conditions, monthly progress reports shall be prepared by the Contractor and submitted to the Engineer in six copies. The first report shall cover the period upto the end of the first calendar month following the Commencement Date. Reports shall be submitted monthly thereafter, each within 7 days after the last day of the period to which it relates.
- 4212 Reporting shall continue until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works.

### Each report shall include:

- a) charts and detailed descriptions of progress, including each stage of design (if any), Contractor's Documents, procurement, manufacture, delivery to Site, construction, erection and testing; and including these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]),
- b) photographs showing the status of manufacture and of progress on the Site;
- c) for the manufacture of each main item of Plant and Materials, the name of the manufacturer, manufacture location, percentage progress, and the actual or expected dates of:
  - i) commencement of manufacture,
  - ii) Contractor's inspections,
  - iii) tests, and
  - iv) shipment and arrival at the Site;
- d) the details described in Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment];
- e) copies of quality assurance documents, test results and certificates of Materials;
- f) list of notices given under Sub-Clause 2.5 [Procuring Entity's Claims] and notices given under Sub-Clause 20.1 [Contractor's Claims];
- g) safety statistics, including details of any hazardous incidents and activities relating to environmental aspects and public relations; and
- h) comparisons of actual and planned progress, with details of any events or circumstances which may jeopardize the completion in accordance with the Contract, and the measures being (or to be) adopted to overcome delays.
- 4213 The Contractor shall provide immediate notification to the Engineer of incidents in the following categories. Full details of such incidents shall be provided to the Engineer within the time frame agreed with the Engineer.
  - a) confirmed or likely violation of any law or international agreement;
  - b) any fatality or serious injury;
  - c) significant adverse effects or damage to private property (e.g. vehicle accident, damage from fly rock, working beyond the boundary);
  - d) major pollution of drinking water aquifer or damage or destruction of rare or endangered habitat (including protected areas) or species; or
  - e) any allegation of sexual harassment or sexual misbehavior, child abuse, defilement, or other violations involving children.

### 4.22 Security of the Site

Unless otherwise stated in the Particular Conditions:

- a) The Contractor shall be responsible for keeping unauthorized persons off the Site, and
- b) Authorized persons shall be limited to the Contractor's Personnel and the Procuring Entity's Personnel; and to any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as authorized personnel of the Procuring Entity's other contractors on the Site.

### 4.23 Contractor's Operations on Site

423.1 The Contractor shall confine his operations to the Site, and to any additional areas which may be obtained by the Contractor and agreed by the Engineer as additional working areas. The Contractor shall take all necessary precautions to keep Contractor's Equipment and Contractor's Personnel within the Site and these additional areas, and to keep them off adjacent land.

During the execution of the Works, the Contractor shall keep the Site free from all unnecessary obstruction and shall store or dispose of any Contractor's Equipment or surplus materials. The Contractor shall clear away and remove from the Site any wreckage, rubbish and Temporary Works which are no longer required.

4232 Upon the issue of a Taking-Over Certificate, the Contractor shall clear away and remove, from that part of the Site and Works to which the Taking-Over Certificate refers, all Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works. The Contractor shall leave that part of the Site and the Works in a clean and safe condition. However, the Contractor may retain on Site, during the Defects Notification Period, such Goods as are required for the Contractor to fulfil obligations under the Contract.

### 4.24 Fossils

All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the Site shall be placed under the care and authority of the Procuring Entity. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.

The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs Cost from complying with the instructions, the Contractor shall give a further notice to the Engineer and shall be entitled subject to Sub-Clause.

20.1 [Contractor's Claims] to:

- a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- b) payment of any such Cost, which shall be included in the Contract Price.

  After receiving this further notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

### 5. NOMINATED SUB CONTRACTORS

### 5.1 Definition of "nominated Subcontractor

In the Contract, "nominated Subcontractor" means a Subcontractor:

- a) Who is stated in the Contract as being a nominated Subcontractor, or
- b) whom the Engineer, under Clause 13 [Variations and Adjustments], instructs the Contractor to employ as a Subcontractor subject to Sub-Clause 5.2 [Objection to Notification].

### 5.2 Objection to Nomination

The Contractor shall not be under any obligation to employ a nominated Subcontractor against whom the Contractor raises reasonable objection by notice to the Engineer as soon as practicable, with supporting particulars. An objection shall be deemed reasonable if it arises from (among other things) any of the following matters, unless the Procuring Entity agrees in writing to indemnify the Contractor against and from the consequences of the matter:

- a) there are reasons to believe that the Subcontractor does not have sufficient competence, resources or financial strength;
- b) the nominated Subcontract or does not accept to indemnify the Contractor against and from any negligence or misuse of Goods by the nominated Subcontractor, his agents and employees; or
- c) the nominated Subcontractor does not accept to enter into a subcontract which specifies that, for the subcontracted work (including design, if any), the nominated Subcontract or shall:
  - i) undertake to the Contractor such obligations and liabilities as will enable the Contractor to discharge his obligations and liabilities under the Contract;
  - ii) indemnify the Contractor against and from all obligations and liabilities arising under or in connection with the Contract and from the consequences of any failure by the Subcontractor to

- perform these obligations or to fulfil these liabilities, and
- iii) be paid only if and when the Contractor has received from the Procuring Entity payments for sums due under the Subcontract referred to under Sub-Clause 5.3 [Payment to nominated Subcontractors].

# 53 Payments to nominated Subcontractors

The Contractor shall pay to the nominated Subcontractor the amounts shown on the nominated Subcontractor's invoices approved by the Contractor which the Engineer certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with sub-paragraph (b) of Sub-Clause 13.5 [Provisional Sums], except as stated in Sub-Clause 5.4 [Evidence of Payments].

### **5.4** Evidence of Payments

Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Engineer may request the Contractor to supply reasonable evidence that the nominated Subcontractor hasreceived all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:

- a) Submits this reasonable evidence to the Engineer, or
- b) i) satisfies the Engineer in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
  - ii) submits to the Engineer reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement, then the Procuring Entity may (at his sole discretion) pay, direct to the nominated Subcontractor, partor all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Procuring Entity, the amount which the nominated Subcontractor was directly paid by the Procuring Entity.

### 6. STAFF AND LABOR

### 6.1 Engagement of Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, feeding, transport, and, when appropriate, housing. The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labor with appropriate qualifications and experience from sources within the Country.

# 62 Rates of Wages and Conditions of Labor

- The Contractor shall pay rates of wages, and observe conditions of labor, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by Procuring Entity's whose trade or industry is similar to that of the Contractor.
- The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in Kenya in respect of such of their salaries, wages, allowances and any benefits as are subject to tax under the Laws of Kenya for the time being in force, and the Contractor shall perform such duties in regard to such deductions there of as may be imposed on him by such Laws.

# 63 Persons in the Service of Procuring Entity

The Contractor shall not recruit, or attempt to recruit, staff and labor from amongst the Procuring Entity's Personnel.

### 6.4 Labor Laws

The Contractor shall comply with all the relevant labor Laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.

The Contractor shall require his employees to obey all applicable Laws, including those concerning safety at work.

### 65 Working Hours

No work shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the SCC, unless:

- a) Otherwise stated in the Contract,
- b) The Engineer gives consent, or
- c) The work is unavoidable, or necessary for the protection of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer.

### 6.6 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specification.

The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.

### 6.7 Health and Safety

- 67.1 The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Procuring Entity's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
- The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.
- The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Engineer may reasonably require.
- 6.7.3 <u>HIV-AIDS Prevention</u>. The Contractor shall conduct an HIV-AIDS awareness programme via an approved service provider and shall undertake such other measures as are specified in this Contract to reduce the risk of the transfer of the HIV virus between and among the Contractor's Personnel and the local community, to promote early diagnosis and to assist affected individuals.

## 68 Contractor's Superintendence

- 68.1 Throughout the execution of the Works, and as long thereafter as is necessary to fulfil the Contractor's obligations, the Contractor shall provide all necessary superintendence to plan, arrange, direct, manage, inspect and test the work.
- 6.82 Superintendence shall be given by a sufficient number of persons having adequate knowledge of the language for communications (defined in Sub-Clause 1.4 [Law and Language]) and of the operations to be carried out (including the methods and techniques required, the hazards likely to be encountered and methods of preventing accidents), for the satisfactory and safe execution of the Works.

# 69 Contractor's Personnel

- 69.1 The Contractor's Personnel specified in the **SCC** shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Engineer may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative if applicable, who:
  - a) Persists in any misconduct or lack of care,
  - b) Carries out duties incompetently or negligently,
  - c) Fails to conform with any provisions of the Contract,
  - d) Persists in any conduct which is prejudicial to safety, health, or the protection of the environment, or
  - e) Based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works.

6.9.2	If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

### 6.10 Records of Contractor's Personnel and Equipment

The Contractor shall submit, to the Engineer, details showing the number of each class of Contractor's Personnel and of each type of Contractor's Equipment on the Site. Details shall be submitted each calendar month, in a form approved by the Engineer, until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works.

## 6.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst the Contractor's Personnel, and to preserve peace and protection of persons and property on and near the Site.

# 6.12 Foreign Personnel

- 6.12.1 The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Procuring Entity will, if requested by the Contractor, use his Lowest endeavors in a timely and expeditious manner to assist the Contract or in obtaining any local, state, national or government permission required for bringing in the Contractor's personnel.
- 6.122 The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

# 6.13 Supply of Foodstuffs

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

### 6.14 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

# 6.15 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

# 6.16 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereof by Contractor's Personnel.

#### 6.17 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

# 618 Festivals and Religious Customs

The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.

### **6.19** Funeral Arrangements

The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of his local employees who may die while engaged upon the Works.

# 620 Prohibition of Forced or Compulsory Labor

The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

### 621 Prohibition of Harmful Child Labor

The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where the relevant labor laws of the Country have provisions for employment of minors, the Contract or shall follow those laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.

# **6.22** Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labor at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment].

# 623 Workers' Organizations

The Contractor shall comply with laws on workers' rights to form and to join workers' organizations without interference and to bargain collectively.

## 6.24 Non-Discrimination and Equal Opportunity

The Contractor shall not make employment decisions on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment relationship on the principle of equal opportunity and fair treatment and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employment or retirement, and discipline.

## 7. Plant, Materials and Workmanship

### 7.1 Manner of Execution

The Contractor shall carry out the manufacture of Plant, the production and manufacture of Materials, and all other execution of the Works:

- a) In the manner (if any) specified in the Contract,
- b) In a proper workman like and careful manner, in accordance with recognized good practice, and
- c) with properly equipped facilities and non-hazardous Materials, except as otherwise specified in the Contract.

### **72** Samples

The Contractor shall submit the following samples of Materials, and relevant information, to the Engineer for consent prior to using the Materials in or for the Works:

- a) manufacturer's standard samples of Materials and samples specified in the Contract, all at the Contractor's cost, and
- b) additional samples instructed by the Engineer as a Variation. Each sample shall be labeled as to origin and intended use in the Works.

## 7.3 Inspection

- 73.1 The Procuring Entity's Personnel shall at all reasonable times:
  - a) Have full access to all parts of the Site and to all places from which natural Materials are being obtained, and
  - b) during production, manufacture and construction (at the Site and elsewhere), be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of manufacture of Plant and production and manufacture of Materials.
- The Contractor shall give the Procuring Entity's Personnel full opportunity to carry out these activities, including providing access, facilities, permissions and safety equipment. No such activity shall relieve the

Contractor from any obligation or responsibility.

The Contractor shall give notice to the Engineer whenever any work is ready and before it is covered up, put out of sight, or packaged for storage or transport. The Engineer shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Engineer does not require to do so. If the Contractor fails to give the notice, he shall, if and when required by the Engineer, uncover the work and thereafter reinstate and make good, all at the Contractor's cost.

## 7.4 Testing

- 74.1 This Sub-Clause shall apply to all tests specified in the Contract, other than the Tests after Completion (if any).
- Except as otherwise specified in the Contract, the Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labor, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently. The Contractor shall agree, with the Engineer, the time and place for the specified testing of any Plant, Materials and other parts of the Works.

The Engineer may, under Clause 13 [Variations and Adjustments], vary the location or details of specified tests, or instruct the Contractor to carry out additional tests. If these varied or additional tests show that the tested Plant, Materials or workmanship is not in accordance with the Contract, the cost of carrying out this Variation shall be borne by the Contractor, notwithstanding other provisions of the Contract.

7.43 The Engineer shall give the Contractor not less than 24 hours' notice of the Engineer's intention to attend the tests. If the Engineer does not attend at the time and place agreed, the Contractor may proceed with the tests, unless otherwise instructed by the Engineer, and the tests shall then be deemed to have been made in the Engineer'spresence.

If the Contractor suffers delay and/or incurs Cost from complying with these instructions or as a result of a delay for which the Procuring Entity is responsible, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:

- a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- b) Payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 7.4.4 After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

The Contractor shall promptly forward to the Engineer duly certified reports of the tests. When the specified tests have been passed, the Engineer shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect. If the Engineer has not attended the tests, he shall be deemed to have accepted the readings as accurate.

### 7.5 Rejection

- 75.1 If, as a result of an examination, inspection, measurement or testing, any Plant, Materials or workmanship is found to be defective or otherwise not in accordance with the Contract, the Engineer may reject the Plant, Materials or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the Contract.
- 752 If the Engineer requires this Plant, Materials or workmanship to be retested, the tests shall be repeated unde rthe same terms and conditions. If the rejection and retesting cause the Procuring Entity to incur additional costs, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity.

### 7.6 Remedial Work

- 7.6.1 Notwithstanding any previous test or certification, the Engineer may instruct the Contractor to:
  - a) remove from the Site and replace any Plant or Materials which is not in accordance with the Contract,
  - b) remove and re-execute any other work which is not in accordance with the Contract, and
  - c) execute any work which is urgently required for the safety of the Works, whether because of an accident, unforeseeable event or otherwise.
- 7.62 The Contractor shall comply with the instruction within a reasonable time, which shall be the time (if any) specified in the instruction, or immediately if urgency is specified under sub-paragraph (c).
- 7.63 If the Contractor fails to comply with the instruction, the Procuring Entity shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to

payment for the work, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity all costs arising from this failure.

## 7.7 Ownership of Plant and Materials

Except as otherwise provided in the Contract, each item of Plant and Materials shall, to the extent consistent with the Laws of the Country, become the property of the Procuring Entity at whichever is the earlier of the following times, free from liens and other encumbrances:

- a) When it is incorporated in the Works;
- b) when the Contractor is paid the corresponding value of the Plant and Materials under Sub-Clause 8.10 [Payment for Plant and Materials in Event of Suspension].

# 7.8 Royalties

Unless otherwise stated in the Specification, the Contractor shall pay all royalties, rents and other payments for:

- a) Natural Materials obtained from outside the Site, and
- b) The disposal of material from demolitions and excavations and of other surplus material (whether natural or man-made), except to the extent that disposal areas within the Site are specified in the Contract.

### 8. COMMENCEMENT, DELAYS AND SUSPENSION

### **8.1** Commencement of Works

- 8.1.1 Except as otherwise specified in the Special Conditions of Contract, the Commencement Date shall be the date at which the following precedent conditions have all been fulfilled and the Engineer's notification recording the agreement of both Parties on such fulfilment and instructing to commence the Work is received by the Contractor:
  - a) Contract by relevant authorities of the Country;
  - b) delivery to the Contractor of reasonable evidence of the Procuring Entity's financial arrangements (under Sub-Clause 2.4 [Procuring Entity's Financial Arrangements]);
  - c) signature of the Contract Agreement by both Parties, and if required, approval of the except if otherwise specified in the SCC, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works
  - d) receipt by the Contract or of the Advance Payment under Sub-Clause 14.2 [Advance Payment] provided that the corresponding Procuring Entity guarantee has been delivered by the Contractor.
- 8.12 If the said Engineer's instruction is not received by the Contractor within 180 days from his receipt of the Letter of Acceptance, the Contractor shall be entitled to terminate the Contract under Sub-Clause 16.2 [Termination by Contractor].
- 8.13 The Contractor shall commence the execution of the Works as soon as is reasonably practicable after the Commencement Date and shall then proceed with the Works with due expedition and without delay.

### **82** Time for Completion

The Contractor shall complete the whole of the Works, and each Section (if any), within the Time for Completion for the Works or Section (as the case may be), including:

- a) achieving the passing of the Tests on Completion, and
- completing all work which is stated in the Contract as being required for the Works or Section to be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections]. Programme
- 83.1 The Contractor shall submit a detailed time programme to the Engineer within 14 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include:
  - a) the order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage of design (if any), Contractor's Documents, procurement, manufacture of Plant, delivery to Site,

- construction, erection and testing,
- b) each of these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]),
- c) the sequence and timing of inspections and tests specified in the Contract, and
- d) a supporting report which includes:
  - i) a general description of the methods which the Contract or intends to adopt, and of the major stages, in the execution of the Works, and
  - ii) details showing the Contractor's reasonable estimate of the number of each class of Contractor's Personnel and of each type of Contractor's Equipment, required on the Site for each major stage.
- Unless the Engineer, within 14 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Procuring Entity's Personnel shall be entitled to rely upon the programme when planning their activities.
- The Contractor shall promptly give notice to the Engineer of specific probable future events or circumstances which may adversely affect the work, increase the Contract Price or delay the execution of the Works. The Engineer may require the Contractor to submit an estimate of the anticipated effect of the future event or circumstances, and/or a proposal under Sub-Clause 13.3 [Variation Procedure].
- If, at anytime, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer in accordance with this Sub-Clause.

# **84** Extension of Time for Completion

- 84.1 The Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to an extension of the Time for Completion if and to the extent that completion for the purposes of Sub-Clause 10.1 [Taking Over of the Works and Sections] is or will be delayed by any of the following causes:
  - a) a Variation (unless an adjustment to the Time for Completion has been agreed under Sub-Clause 13.3 [Variation Procedure]) or other substantial change in the quantity of an item of work included in the Contract.
  - b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions,
  - c) exceptionally adverse climatic conditions,
  - d) Unforeseeable shortages in the availability of personnel or Goods caused by epidemic or governmental actions or
  - e) Any delay, impediment or prevention caused by or attributable to the Procuring Entity, the Procuring Entity's Personnel, or the Procuring Entity's other contractors.
- 842 If the Contractor considers itself to be entitled to an extension of the Time for Completion, the Contractor shall give notice to the Engineer in accordance with Sub-Clause 20.1 [Contractor's Claims]. When determining each extension of time under Sub-Clause 20.1, the Engineer shall review previous determinations and may increase, but shall not decrease, the total extension of time.

# 85 Delays Caused by Authorities

If the following conditions apply, namely:

- a) The Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities in the Country,
- b) These authorities delay or disrupt the Contractor's work, and
- c) the delay or disruption was Unforeseeable, then this delay or disruption will be considered as a cause of delay under sub-paragraph (b) of Sub-Clause 8.4 [Extension of Time for Completion].

# **8.6** Rate of Progress

- 8.6.1 If, at any time:
  - a) Actual progress is too slow to complete within the Time for Completion, and/or
  - b) Progress has fallen (or will fall) behind the current programme under Sub-Clause 8.3 [Programme], other than as a result of a cause listed in Sub-Clause 8.4 [Extension of Time for Completion], then the Engineer may instruct the Contractor to submit, under Sub-Clause 8.3 [Programme], a revised programme and supporting report describing the revised methods which the Contractor proposes to adopt in order to expedite progress and complete within the Time for Completion.

Unless the Engineer notifies otherwise, the Contractor shall adopt these revised methods, which may require increases in the working hours and/or in the numbers of Contractor's Personnel and/or Goods, at the risk and cost of the Contractor. If these revised methods cause the Procuring Entity to incur additional costs, the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity, in addition to delay damages (if any) under Sub-Clause 8.7 below.

Additional costs of revised methods including acceleration measures, instructed by the Engineer to reduce delays resulting from causes listed under Sub-Clause 8.4 [Extension of Time for Completion] shall be paid by the Procuring Entity, without generating, however, any other additional payment benefit to the Contractor.

## 8.7 Delay Damages

- 87.1 If the Contractor fails to comply with Sub-Clause 8.2 [Time for Completion], the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay delay damages to the Procuring Entity for this default. These delay damages shall be the sum stated in the SCC, which shall be paid for everyday which shall elapse between the relevant Time for Completion and the date stated in the Taking-Over Certificate. However, the total amount due under this Sub-Clause shall not exceed the maximum amount of delay damages (if any) stated in the SCC.
- These delay damages shall be the only damages due from the Contractor for such default, other than in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity] prior to completion of the Works. These damages shall not relieve the Contractor from his obligation to complete the Works, or from any other duties, obligations or responsibilities which he may have under the Contract.

## 88 Suspension of Work

The Engineer may at any time instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works against any deterioration, loss or damage.

The Engineer may also notify the cause for the suspension. If and to the extent that the cause is notified and is the responsibility of the Contractor, the following Sub-Clauses 8.9, 8.10 and 8.11 shall not apply.

### 89 Consequences of Suspension

- 89.1 If the Contractor suffers delay and/or incurs Cost from complying with the Engineer's instructions under Sub-Clause 8.8 [Suspension of Work] and/or from resuming the work, the Contractor shall give notice to the Engineer and shall been titled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) Payment of any such Cost, which shall be included in the Contract Price.

After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

The Contractor shall not be entitled to an extension of time for, or to payment of the Cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with Sub-Clause 8.8 [Suspension of Work].

### 8.10 Payment for Plant and Materials in Event of Suspension

The Contractor shall be entitled to payment of the value (as at the date of suspension) of Plant and/or Materials which have not been delivered to Site, if:

- a) the work on Plant or delivery of Plant and/or Materials has been suspended for more than 30 days, and
- b) the Contractor has marked the Plant and/or Materials as the Procuring Entity's property in accordance with the Engineer's instructions.

# 8.11 Prolonged Suspension

If the suspension under Sub-Clause 8.8 [Suspension of Work] has continued for more than 84 days, the Contractor may request the Engineer's permission to proceed. If the Engineer does not give permission within 30 days after being requested to do so, the Contractor may, by giving notice to the Engineer, treat the suspension as an omission under Clause 13 [Variations and Adjustments] of the affected part of the Works. If

the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 16.2 [Termination by Contractor].

### 8.12 Resumption of Work

After the permission or instruction to proceed is given, the Contractor and the Engineer shall jointly examine the Works and the Plant and Materials affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works or Plant or Materials, which has occurred during the suspension after receiving from the Engineer an instruction to this effect under Clause13 [Variations and Adjustments].

### 9. TESTS ON COMPLETION

### 9.1 Contractor's Obligations

- 9.1.1 The Contractor shall carry out the Tests on Completion in accordance with this Clause and Sub-Clause 7.4 [Testing], after providing the documents in accordance with sub-paragraph (d) of Sub-Clause 4.1 [Contractor's General Obligations].
- 9.12 The Contractor shall give to the Engineer not less than 21 days' notice of the date after which the Contract or will be ready to carry out each of the Tests on Completion. Unless otherwise agreed, Tests on Completion shall be carried out within 14 days after this date, on such day or days as the Engineer shall instruct.
- 9.13 In considering the results of the Tests on Completion, the Engineer shall make allowances for the effect of any use of the Works by the Procuring Entity on the performance or other characteristics of the Works. As soon as the Works, or a Section, have passed any Tests on Completion, the Contractor shall submit a certified report of the results of these Tests to the Engineer.

### 9.2 Delayed Tests

If the Tests on Completion are being unduly delayed by the Procuring Entity, Sub-Clause 7.4 [Testing] (fifth paragraph) and/or Sub-Clause 10.3 [Interference with Tests on Completion] shall be applicable.

If the Tests on Completion are being unduly delayed by the Contractor, the Engineer may by notice require the Contractor to carry out the Tests within 21 days after receiving the notice. The Contractor shall carry out the Tests on such day or days within that period as the Contract or may fix and of which he shall give notice to the Engineer.

If the Contractor fails to carry out the Tests on Completion within the period of 21 days, the Procuring Entity's Personnel may proceed with the Tests at the risk and cost of the Contractor. The Tests on Completion shall then be deemed to have been carried out in the presence of the Contract or and the results of the Tests shall be accepted as accurate.

### 93 Retesting

If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Engineer or the Contractor may require the failed Tests, and Tests on Completion on any related work, to be repeated under the same terms and conditions.

# 9.4 Failure to Pass Tests on Completion

- 9.4.1 If the Works, or a Section, fail to pass the Tests on Completion repeated under Sub-Clause 9.3 [Retesting], the Engineer shall be entitled to:
  - a) Order further repetition of Tests on Completion under Sub-Clause 9.3;
  - b) If the failure deprives the Procuring Entity of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event the Procuring Entity shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause 11.4 [Failure to Remedy Defects]; or
  - c) Issue a Taking-Over Certificate, if the Procuring Entity so requests.
- 9.42 In the event of sub-paragraph (c), the Contractor shall proceed in accordance with all other obligations under the Contract, and the Contract Price shall be reduced by such amount as shall be appropriate to cover the reduced value to the Procuring Entity as a result of this failure. Unless the relevant reduction for this failure is stated (or its method of calculation is defined) in the Contract, the Procuring Entity may require the reduction to be (i) agreed by both Parties (in full satisfaction of this failure only) and paid before this Taking-Over

Certificate is issued, or

(ii) determined and paid under Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause 3.5 [Determinations].

### 10. PROCURING ENTITY'S TAKING OVER

### 10.1 Taking Over of the Works and Sections

- 10.1.1 Except as stated in Sub-Clause 9.4 [Failure to Pass Tests on Completion], the Works shall be taken over by the Procuring Entity when (i) the Works have been completed in accordance with the Contract, including the matters described in Sub-Clause 8.2 [Time for Completion] and except as allowed in sub-paragraph (a) below, and (ii) a Taking-Over Certificate for the Works has been issued, or is deemed to have been issued in accordance with this Sub-Clause.
- 10.12 The Contract or may apply by notice to the Engineer for a Taking-Over Certificate not earlier than 14 days before the Works will, in the Contractor's opinion, be complete and ready for taking over. If the Works are divided into Sections, the Contract or may similarly apply for a Taking-Over Certificate for each Section.

The Engineer shall, within 30 days after receiving the Contractor's application:

- a) issue the Taking-Over Certificate to the Contractor, stating the date on which the Works or Section were completed in accordance with the Contract, except for any minor outstanding work and defects which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or
- b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.
- 10.13 If the Engineer fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on the last day of that period.

### 10.2 Taking Over of Parts of the Works

102.1 The Engineer may, at the sole discretion of the Procuring Entity, issue a Taking-Over Certificate for any part of the Permanent Works.

The Procuring Entity shall not use any part of the Works (other than as a temporary measure which is either specified in the Contract or agreed by both Parties) unless and until the Engineer has issued a Taking-Over Certificate for this part. However, if the Procuring Entity does use any part of the Works before the Taking-Over Certificate is issued:

- a) The part which is used shall be deemed to have been taken over as from the date on which it is used,
- b) The Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Procuring Entity, and
- c) If requested by the Contractor, the Engineer shall issue a Taking-Over Certificate for this part.
- 1022 After the Engineer has issued a Taking-Over Certificate for a part of the Works, the Contractor shall be given the earliest opportunity to take such steps as may be necessary to carry out any outstanding Tests on Completion. The Contractor shall carry out these Tests on Completion as soon as practicable before the expiry date of the relevant Defects Notification Period.
- 1023 If the Contractor incurs Cost as a result of the Procuring Entity taking over and/or using a part of the Works, other than such use as is specified in the Contractor agreed by the Contractor, the Contractor shall (i) give notice to the Engineer and (ii) be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to payment of any such Cost-plus profit, which shall be included in the Contract Price. After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this Cost and profit.
- 1024 If a Taking-Over Certificate has been issued for a part of the Works (other than a Section), the delay damages there after for completion of the remainder of the Works shall be reduced. Similarly, the delay damages for the remainder of the Section (if any) in which this part is included shall also be reduced. For any period of delay after the date stated in this Taking-Over Certificate, the proportional reduction in these delay damages shall be calculated as the proportion which the value of the part so certified bears to the value of the Works or Section (as the case may be) as a whole. The Engineer shall proceed in accordance with Sub-Clause 3.5

[Determinations] to agree or determine these proportions. The provisions of this paragraph shall only apply to the daily rate of delay damages under Sub-Clause 8.7 [Delay Damages] and shall not affect the maximum amount of these damages.

# 10.3 Interference with Tests on Completion

103.1 If the Contractor is prevented, for more than 14 days, from carrying out the Tests on Completion by a cause for which the Procuring Entity is responsible, the Procuring Entity shall be deemed to have taken over the Works or Section (as the case may be) on the date when the Tests on Completion would otherwise have been completed.

The Engineer shall then issue a Taking-Over Certificate accordingly, and the Contractor shall carry out the Tests on Completion as soon as practicable, before the expiry date of the Defects Notification Period. The Engineer shall require the Tests on Completion to be carried out by giving 14 days' notice and in accordance with the relevant provisions of the Contract.

- 1032 If the Contractor suffers delay and/or incurs Cost as a result of this delay in carrying out the Tests on Completion, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) Payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 1033 After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

## 10.4 Surfaces Requiring Reinstatement

Except as otherwise stated in a Taking-Over Certificate, a certificate for a Section or part of the Works shall not be deemed to certify completion of any ground or other surfaces requiring reinstatement.

### 11. Defects Liability

## 11.1 Completion of Outstanding Work and Remedying Defects

In order that the Works and Contractor's Documents, and each Section, shall be in the condition required by the Contract (fair wear and tear excepted) by the expiry date of the relevant Defects Notification Period or as soon as practicable thereafter, the Contractor shall:

- a) complete any work which is outstanding on the date stated in a Taking-Over Certificate, within such reasonable time as is instructed by the Engineer, and
- b) execute all work required to remedy defects or damage, as may be notified by (or on behalf of) the Procuring Entity on or before the expiry date of the Defects Notification Period for the Works or Section (as the case may be).

If a defect appears or damage occurs, the Contractor shall be notified accordingly, by (or on behalf of) the Procuring Entity.

## 11.2 Cost of Remedying Defects

- All work referred to in sub-paragraph (b) of Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects] shall be executed at the risk and cost of the Contractor, if and to the extent that the work is attributable to:
  - a) Any design for which the Contractor is responsible,
  - b) Plant, Materials or workmanship not being in accordance with the Contract, or
  - c) Failure by the Contractor to comply with any other obligation.
- If and to the extent that such work is attributable to any other cause, the Contractor shall be notified promptly by (or on behalf of) the Procuring Entity, and Sub-Clause 13.3 [Variation Procedure] shall apply.

### 113 Extension of Defects Notification Period

113.1 The Procuring Entity shall be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to an extension of the Defects Notification Period for the Works or a Section if and to the extent that the Works, Section or a major item of Plant (as the case may be, and after taking over) cannot be used for the purposes for which they are intended by reason of a defect or by reason of damage attributable to the Contractor. However, a Defects Notification Period shall not be extended by more than two years.

113.2 If delivery and/or erection of Plant and/or Materials was suspended under Sub-Clause 8.8 [Suspension of Work] or Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work], the Contractor's obligations under this Clause shall not apply to any defects or damage occurring more than two years after the Defects Notification Period for the Plant and/or Materials would otherwise have expired.

### 11.4 Failure to Remedy Defects

- 114.1 If the Contractor fails to remedy any defector damage within a reasonable time, a date may be fixed by (or on behalf of) the Procuring Entity, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of this date.
- 11.42 If the Contractor fails to remedy the defect or damage by this notified date and this remedial work was to be executed at the cost of the Contractor under Sub-Clause 11.2 [Cost of Remedying Defects], the Procuring Entity may (at his option):
  - a) Carry out the work itself or by others, in a reasonable manner and at the Contractor's cost, but the Contractor shall have no responsibility for this work; and the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity the costs reasonably incurred by the Procuring Entity in remedying the defect or damage;
  - b) Require the Engineer to agree or determine a reasonable reduction in the Contract Price in accordance with Sub-Clause3.5 [Determinations]; or
  - c) If the defect or damage deprives the Procuring Entity of substantially the whole benefit of the Works or any major part of the Works, terminate the Contract as a whole, or in respect of such major part which cannot be put to the intended use.
- 11.4.3 Without prejudice to any other rights, under the Contractor otherwise, the Procuring Entity shall then be entitled to recover all sums paid for the Works or for such part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.

### 11.5 Removal of Defective Work

If the defect or damage cannot be remedied expeditiously on the Site and the Procuring Entity gives consent, the Contractor may remove from the Site for the purposes of repair such items of Plant as are defective or damaged. This consent may require the Contractor to increase the amount of the Performance Security by the full replacement cost of these items, or to provide other appropriate security.

### 11.6 Further Tests

If the work of remedying of any defect or damage may affect the performance of the Works, the Engineer may require the repetition of any of the tests described in the Contract. The requirement shall be made by notice within 30 days after the defect or damage is remedied.

These tests shall be carried out in accordance with the terms applicable to the previous tests, except that hey shall be carried out at the risk and cost of the Party liable, under Sub-Clause 11.2 [Cost of Remedying Defects], for the cost of the remedial work.

# 11.7 Right of Access

Until the Performance Certificate has been issued, the Contractor shall have such right of access to the Works as is reasonably required in order to comply with this Clause, except as may be inconsistent with the Procuring Entity's reasonable security restrictions.

### 118 Contractor to Search

The Contractor shall, if required by the Engineer, search for the cause of any defect, under the direction of the Engineer. Unless the defect is to be remedied at the cost of the Contractor under Sub-Clause 11.2 [Cost of Remedying Defects], the Cost of the search plus profit shall be agreed or determined by the Engineer in accordance with Sub-Clause 3.5 [Determinations] and shall be included in the Contract Price.

### 11.9 Completion Certificate

119.1 Performance of the Contractor's obligations shall not be considered to have been completed until the Engineer has issued the Performance Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.

- The Engineer shall issue the Performance Certificate within 30 days after the latest of the expiry dates of the Defects Notification Periods, or as soon thereafter as the Contractor has supplied all the Contractor's Documents and completed and tested all the Works, including remedying any defects. A copy of the Performance Certificate shall be issued to the Procuring Entity.
- 1193 Only the Performance Certificate shall be deemed to constitute acceptance of the Works.

# 11.10 Unfulfilled Obligations

After the Performance Certificate has been issued, each Party shall remain liable for the fulfilment of any obligation which remains unperformed at that time. For the purposes of determining the nature and extent of unperformed obligations, the Contract shall be deemed to remain in force.

## 11.11 Clearance of Site

- 11.11.1 Upon receiving the Performance Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works from the Site.
- 11.112 If all these items have not been removed within 30 days after receipt by the Contractor of the Performance Certificate, the Procuring Entity may sell or otherwise dispose of any remaining items. The Procuring Entity shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.

Any balance of the moneys from the sale shall be paid to the Contractor. If these moneys are less than the Procuring Entity's costs, the Contractor shall pay the outstanding balance to the Procuring Entity.

### 12. MEASUREMENT AND EVALUATION

### 12.1 Works to be Measured

- 12.1.1 The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.10 [Statement on Completion] and 14.11 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract.
- Whenever the Engineer requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall:
  - a) promptly either attend or send another qualified representative to assist the Engineer in making the measurement, and
  - (b) supply any particulars requested by the Engineer.

    If the Contractor fails to attend or send a representative, the measurement made by (or on behalf of) the Engineer shall be accepted as accurate.
- 12.13 Except as otherwise stated in the Contract, wherever any Permanent Works are to be measured from records, these shall be prepared by the Engineer. The Contractor shall, as and when requested, attend to examine and agree the records with the Engineer, and shall sign the same when agreed. If the Contractor does not attend, the records shall be accepted as accurate.
- 12.14 If the Contractor examines and disagrees the records, and/or does not sign them as agreed, then the Contractor shall give notice to the Engineer of the respects in which the records are asserted to be inaccurate. After receiving this notice, the Engineer shall review the records and either confirm or vary them and certify the payment of the undisputed part. If the Contractor does not so give notice to the Engineer within 14 days after being requested to examine the records, they shall be accepted as accurate.

# 12.2 Method of Measurement

Except as otherwise stated in the Contract and notwithstanding local practice:

- a) Measurement shall be made of the net actual quantity of each item of the Permanent Works, and
- b) The method of measurement shall be in accordance with the Bills of Quantities or other applicable Schedules.

### 123 Evaluation

- Except as otherwise stated in the Contract, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the Contract Price by evaluating each item of work, applying the measurement agreed or determined in accordance with the above Sub-Clauses 12.1 and 12.2 and the appropriate rate or price for the item.
  - For each item of work, the appropriate rate or price for the item shall be the rate or price specified for such item in the Contractor, if there is no such item, specified for similar work.
- 1232 Any item of work included in the Bills of Quantities for which no rate or price was specified shall be considered as included in other rates and prices in the Bills of Quantities and will not be paid for separately.

However, a new rate or price shall be appropriate for an item of work if:

- a) I) the measured quantity of the item is changed by more than 25% from the quantity of this item in the Bills of Quantities or another Schedule,
  - ii) This change in quantity multiplied by such specified rate for this item exceeds 0.25% of the Accepted Contract Amount,
  - iii) This change in quantity directly changes the Cost per unit quantity of this item by more than 1%, and
  - iv) This item is not specified in the Contract as a "fixed rate item"; or
- b) i) the work is instructed under Clause 13 [Variations and Adjustments],
  - ii) no rate or price is specified in the Contract for this item, and
  - iii) no specified rate or price is appropriate because the item of work is not of similar character, or is not executed under similar conditions, as any item in the Contract.
- 1233 Each new rate or price shall be derived from any relevant rates or prices in the Contract, with reasonable adjustments to take account of the matters described in sub-paragraph (a) and/or (b), as applicable. If no rates or prices are relevant for the derivation of a new rate or price, it shall be derived from the reasonable Cost of executing the work, together with profit, taking account of any other relevant matters.
- 123.4 Until such time as an appropriate rate or price is agreed or determined, the Engineer shall determine a provisional rate or price for the purposes of Interim Payment Certificates as soon as the concerned work commences.
- Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (*which would be the tender price*), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a <u>plus or minus percentage</u>. The percentage already worked out during tender evaluation is worked out as follows: (*corrected tender price-tender price)/tender price X 100*.

# 12.4 Omissions

Whenever the omission of any work forms part (or all) of a Variation, the value of which has not been agreed, if:

- a) the Contractor will incur (or has incurred) cost which, if the work had not been omitted, would have been deemed to be covered by a sum forming part of the Accepted Contract Amount;
- b) the omission of the work will result (or has resulted) in this sum not forming part of the Contract Price; and
- c) this cost is not deemed to be included in the evaluation of any substituted work; then the Contractor shall give notice to the Engineer accordingly, with supporting particulars. Upon receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this cost, which shall be included in the Contract Price.

### 13. VARIATIONS AND ADJUSTMENTS

# 13.1 Right to Vary

- 13.1.1 Variations may be initiated by the Engineer at any time prior to issuing the Taking-Over Certificate for the Works, either by an instruction or by a request for the Contractor to submit a proposal.
- 13.12 The Contractor shall execute and be bound by each Variation, unless the Contractor promptly gives notice to the Engineer stating (with supporting particulars) that (i) the Contractor cannot readily obtain the Goods required for the Variation, or (ii) such Variation triggers a substantial change in the sequence or progress of the Works. Upon receiving this notice, the Engineer shall cancel, confirm or vary the instruction.

Each Variation may include:

- a) Changes to the quantities of any item of work included in the Contract (however, such changes do not necessarily constitute a Variation),
- b) Changes to the quality and other characteristics of any item of work,
- c) Changes to the levels, positions and/or dimensions of any part of the Works,
- d) Omission of any work unless it is to be carried out by others,
- e) any additional work, Plant, Materials or services necessary for the Permanent Works, including any associated Tests on Completion, boreholes and other testing and exploratory work, or
- f) changes to the sequence or timing of the execution of the Works.
- 13.13 The Contractor shall not make any alteration and/or modification of the Permanent Works, unless and until the Engineer instructs or approves a Variation.

# 13.2 Value Engineering

- The Contract or may, at any time, submit to the Engineer a written proposal which (in the Contractor's opinion) will, if adopted, (i) accelerate completion, (ii) reduce the cost to the Procuring Entity of executing, maintaining or operating the Works, (iii) improve the efficiency or value to the Procuring Entity of the completed Works, or (iv) otherwise be of benefit to the Procuring Entity.
- The proposal shall be prepared at the cost of the Contract or and shall include the items listed in Sub- Clause 13.3 [Variation Procedure].

If a proposal, which is approved by the Engineer, includes a change in the design of part of the Permanent Works, then unless otherwise agreed by both Parties:

- a) The Contractor shall design this part,
- b) sub-paragraphs (a) to (d) of Sub-Clause 4.1 [Contractor's General Obligations] shall apply, and
- c) if this change results in a reduction in the contract value of this part, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine a fee, which shall be included in the Contract Price. This fee shall be half (50%) of the difference between the following amounts:
  - i) such reduction in contract value, resulting from the change, excluding adjustments under Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost], and
  - ii) the reduction (if any) in the value to the Procuring Entity of the varied works, taking account of any reductions in quality, anticipated life or operational efficiencies.
- However, if amount (i) is less than amount (ii), there shall not be a fee.

### 13.3 Variation Procedure

- 133.1 If the Engineer requests a proposal, prior to instructing a Variation, the Contractor shall respond in writing as soon as practicable, either by giving reasons why he cannot comply (if this is the case) or by submitting:
  - a) A description of the proposed work to be performed and a programme for its execution,
  - b) the Contractor's proposal for any necessary modifications to the programme according to Sub-

- Clause 8.3 [Programme] and to the Time for Completion, and
- c) the Contractor's proposal for evaluation of the Variation.
- 1332 The Engineer shall, as soon as practicable after receiving such proposal (under Sub-Clause 13.2 [Value Engineering] or otherwise), respond with approval, disapproval or comments. The Contractor shall not delay any work whilst awaiting a response.
- Each instruction to execute a Variation, with any requirements for the recording of Costs, shall be issued by the Engineer to the Contractor, who shall acknowledge receipt.

Each Variation shall be evaluated in accordance with Clause 12 [Measurement and Evaluation], unless the Engineer instructs or approves otherwise in accordance with this Clause.

# 13.4 Payment in Applicable Currencies

If the Contract provides for payment of the Contract Price in more than one currency, then whenever an adjustment is agreed, approved or determined as stated above, the amount payable in each of the applicable currencies shall be specified. For this purpose, reference shall be made to the actual or expected currency proportions of the Cost of the varied work, and to the proportions of various currencies specified for payment of the Contract Price.

### 13.5 Provisional Sums

- Each Provisional Sum shall only be used, in whole or in part, in accordance with the Engineer's instructions, and the Contract Price shall be adjusted accordingly. The total sum paid to the Contractor shall include only such amounts, for the work, supplies or services to which the Provisional Sum relates, as the Engineer shall have instructed. For each Provisional Sum, the Engineer may instruct:
  - a) Work to be executed (including Plant, Materials or services to be supplied) by the Contractor and valued under Sub-Clause 13.3 [Variation Procedure]; and/or
  - b) Plant, Materials or services to be purchased by the Contractor, from a nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]) or otherwise; and for which there shall be included in the Contract Price:
    - i) The actual amounts paid (or due to be paid) by the Contractor, and
    - ii) A sum for overhead charges and profit, calculated as a percentage of these actual amounts by applying the relevant percentage rate (if any) stated in the appropriate Schedule.
    - iii) If there is no such rate, the percentage rate stated in the SCC shall be applied.
- The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation.

### 13.6 Daywork

- 13.6.1 For work of a minor or incidental nature, the Engineer may instruct that a Variation shall be executed on a daywork basis. The work shall then be valued in accordance with the Daywork Schedule included in the Contract, and the following procedure shall apply. If a Daywork Schedule is not included in the Contract, this Sub-Clauses hall not apply.
  - Before ordering Goods for the work, the Contractor shall submit quotations to the Engineer. When applying for payment, the Contractor shall submit invoices, vouchers and accounts or receipts for any Goods.
- 13.62 Except for any items for which the Daywork Schedule specifies that payment is not due, the Contractor shall deliver each day to the Engineer accurate statements in duplicate which shall include the following details of the resources used in executing the previous day's work:
  - a) The names, occupations and time of Contractor's Personnel,
  - b) The identification, type and time of Contractor's Equipment and Temporary Works, and

- c) The quantities and types of Plant and Materials used.
- 13.63 One copy of each statement will, if correct, or when agreed, be signed by the Engineer and returned to the Contractor. The Contractor shall then submit priced statements of these resources to the Engineer, prior to their inclusion in the next Statement under Sub-Clause 14.3 [Application for Interim Payment Certificates].

# 13.7 Adjustments for Changes in Legislation

- 13.7.1 The Contract Price shall be adjusted to take account of any increase or decrease in Cost resulting from a change in the Laws of the Country (including the introduction of new Laws and the repeal or modification of existing Laws) or in the judicial or official governmental interpretation of such Laws, made after the Base Date, which affect the Contractor in the performance of obligations under the Contract.
- 13.72 If the Contract or suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Base Date, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) Payment of any such Cost, which shall be included in the Contract Price.

    After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 13.73 Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the table of adjustment data in accordance with the provisions of Sub-Clause
  - 13.8 [Adjustments for Changes in Cost].

### 13.8 Adjustments for Changes in Cost

- 13.8.1 In this Sub-Clause, "table of adjustment data" means the completed table of adjustment data for local and foreign currencies included in the Schedules. If there is no such table of adjustment data, this Sub-Clause shall not apply.
- 13.82 If this Sub-Clause applies, the amounts payable to the Contractor shall be adjusted for rises or falls in the cost of labor, Goods and other inputs to the Works, by the addition or deduction of the amounts determined by the formulae prescribed in this Sub-Clause. To the extent that full compensation for any rise or fall in Costs is not covered by the provisions of this or other Clauses, the Accepted Contract Amount shall be deemed to have included amounts to cover the contingency of other rises and falls in costs.
- 13.83 The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate Schedule and certified in Payment Certificates, shall be determined from formulae for each of the currencies in which the Contract Price is payable. No adjustment is to be applied to work valued on the basis of Cost or current prices. The formulae shall be of the following general type:

Pn = a + b Ln/Lo + c En/Eo + d Mn/Mo + ..... where:

"Pn" is the adjustment multiplier to be applied to the estimated contract value in the relevant currency of the work carried out in period "n", this period being a month unless otherwise stated in the SCC;

"a" is a fixed coefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

"b", "c", "d" ...are coefficients representing the estimated proportion of each cost element related to the execution of the Works, as stated in the relevant table of adjustment data; such tabulated cost elements may be indicative of resources such as labor, equipment and materials;

"Ln", "En", "Mn", ... are the current cost indices or reference prices for period "n", expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

"Lo", "Eo", "Mo", ... are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

- he cost indices or reference prices stated in the table of adjustment data shall be used. If their source is in doubt, it shall be determined by the Engineer. For this purpose, reference shall be made to the values of the indices at stated dates (quoted in the fourth and fifth columns respectively of the table) for the purposes of clarification of the source; although these dates (and thus these values) may not correspond to the base cost indices.
- In cases where the "currency of index" is not the relevant currency of payment, each index shall be converted into the relevant currency of payment at the selling rate, established by the central Procuring Entity of the Country, of this relevant currency on the above date for which the index is required to be applicable.
- 138.6 Until such time as each current cost index is available, the Engineer shall determine a provisional index for the issue of Interim Payment Certificates. When a current cost index is available, the adjustment shall be recalculated accordingly.
- If the Contractor fails to complete the Works within the Time for Completion, adjustment of prices thereafter shall be made using either (i) each index or price applicable on the date 49 days prior to the expiry of the Time for Completion of the Works, or (ii) the current index or price, whichever is more favorable to the Procuring Entity.
- The weightings (coefficients) for each of the factors of cost stated in the table(s) of adjustment data shall only be adjusted if they have been rendered unreasonable, unbalanced or inapplicable, as a result of Variations.

### 14. CONTRACT PRICE AND PAYMENT

### 14.1 The Contract Price

- 14.1.1 Unless otherwise stated in the Particular Conditions:
  - a) the Contract Price shall be agreed or determined under Sub-Clause 12.3 [Evaluation] and be subject to adjustments in accordance with the Contract;
  - b) the Contractor shall pay all taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs except as stated in Sub-Clause 13.7 [Adjustments for Changes in Legislation];
  - c) any quantities which may be set out in the Bills of Quantities or other Schedule are estimated quantities and are not to be taken as the actual and correct quantities:
    - i) of the Works which the Contractor is required to execute, or

- ii) for the purposes of Clause 12 [Measurement and Evaluation]; and
- d) the Contractor shall submit to the Engineer, within 30 days after the Commencement Date, a proposed breakdown of each lump sum price in the Schedules.
- 14.12 The Engineer may take account of the breakdown when preparing Payment Certificates, but shall not be bound by it.
- 14.13 Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts there for, imported by the Contractor for the sole purpose of executing the Contract shall be exempt from the payment of import duties and taxes upon importation.

## 14.2 Advance Payment

- The Procuring Entity shall make an advance payment, as an interest-free loan for mobilization and cash flow support, when the Contractor submits a guarantee in accordance with this Sub-Clause. The total advance payment, the number and timing of instalments (if more than one), and the applicable currencies and proportions, shall be as stated in the SCC. Unless and until the Procuring Entity receives this guarantee, or if the total advance payment is not stated in the SCC, this Sub-Clause shall not apply.
- The Engineer shall deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate for the advance payment or its first instalment after receiving a Statement (under Sub-Clause 14.3 [Application for Interim Payment Certificates]) and after the Procuring Entity receives (i) the Performance Security in accordance with Sub-Clause 4.2 [Performance Security] and (ii) a guarantee in amounts and currencies equal to the advance payment. This guarantee shall be issued by a reputable Procuring Entity or financial institution selected by the Contractor and shall be in the form annexed to the Particular Conditions or in another form approved by the Procuring Entity.
- The Contractor shall ensure that the guarantee is valid and enforceable until the advance payment has been repaid, but its amount shall be progressively reduced by the amount repaid by the Contractor as indicated in the Payment Certificates. If the terms of the guarantee specify its expiry date, and the advance payment has not been repaid by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the guarantee until the advance payment has been repaid.
- Unless stated otherwise in the SCC, the advance payment shall be repaid through percentage deductions from the interim payments determined by the Engineer in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates], as follows:
  - a) Deductions shall commence in the next interim Payment Certificate following that in which the total of all certified interim payments (excluding the advance payment and deductions and repayments of retention) exceeds 30 percent (30%) of the Accepted Contract Amount less Provisional Sums; and
  - b) Deductions shall be made at the amortization rate stated in the SCC of the amount of each Interim Payment Certificate (excluding the advance payment and deductions for its repayments as well as deductions for retention money) in the currencies and proportions of the advance payment until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the time when 90 percent (90%) of the Accepted Contract Amount less Provisional Sums has been certified for payment.
- If the advance payment has not been repaid prior to the issue of the Taking-Over Certificate for the Works or prior to termination under Clause 15 [Termination by Procuring Entity], Clause 16 [Suspension and Termination by Contractor] or Clause 19 [Force Majeure] (as the case may be), the whole of the balance then outstanding shall immediately become due and in case of termination under Clause 15 [Termination by Procuring Entity], except for Sub-Clause 15.5 [Procuring Entity's Entitlement to Termination for Convenience], payable by the Contractor to the Procuring Entity.

# **143** Application for Interim Payment Certificates

- 143.1 The Contractor shall submit a Statement in six copies to the Engineer after the end of each month, in aform approved by the Engineer, showing in detail the amounts to which the Contractor considers itself to been titled, together with supporting documents which shall include the report on the progress during this month in accordance with Sub-Clause 4.21 [Progress Reports].
- The Statement shall include the following items, as applicable, which shall be expressed in the various currencies in which the Contract Price is payable, in the sequence listed:
  - a) the estimated contract value of the Works executed and the Contractor's Documents produced up to the end of the month (including Variations but excluding items described in sub-paragraphs (b) to (g)

- below);
- b) any amounts to be added and deducted for changes in legislation and changes in cost, in accordance with Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost];
- c) any amount to be deducted for retention, calculated by applying the percentage of retention stated in the **SCC** to the total of the above amounts, until the amount so retained by the Procuring Entity reaches the limit of Retention Money (if any) stated in the **SCC**;
- d) any amounts to be added for the advance payment and (if more than one instalment) and to be deducted for its repayments in accordance with Sub-Clause 14.2 [Advance Payment];
- e) any amounts to be added and deducted for Plant and Materials in accordance with Sub-Clause 14.5 [Plant and Materials intended for the Works];
- f) any other additions or deductions which may have become due under the Contract or otherwise, including those under Clause 20 [Claims, Disputes and Arbitration]; and
- g) the deduction of amounts certified in all previous Payment Certificates.
- Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (*which would be the tender price*), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a <u>plus or minus</u> percentage. The percentage already worked out during tender evaluation is worked out as follows: (*corrected tender price—tender price)/tender priceX100*.

# 14.4 Schedule of Payments

144.1 If the Contract includes a schedule of payments specifying the instalments in which the Contract Price will be paid, then unless otherwise stated in this schedule:

- a) The instalments quoted in this schedule of payments shall be the estimated contract values for the purposes of sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates];
- b) Sub-Clause 14.5 [Plant and Materials intended for the Works] shall not apply; and
- c) If these instalments are not defined by reference to the actual progress achieved in executing the Works, and if actual progress is found to be less or more than that on which this schedule of payments was based, then the Engineer may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine revised instalments, which shall take account of the extent to which progress is less or more than that on which the instalments were previously based.
- If the Contract does not include a schedule of payments, the Contractor shall submit non-binding estimates of the payments which he expects to become due during each quarterly period. The first estimate shall be submitted within 42 days after the Commencement Date. Revised estimates shall be submitted at quarterly intervals, until the Taking-Over Certificate has been issued for the Works.

### 14.5 Plant and Materials intended for the Works (see SCC for lists)

- If this Sub-Clause applies, Interim Payment Certificates shall include, under sub-paragraph (e) of Sub-Clause 14.3, (i) an amount for Plant and Materials which have been sent to the Site for incorporation in the Permanent Works, and (ii) a reduction when the contract value of such Plant and Materials is included as part of the Permanent Works under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates].
- If the lists referred to in sub-paragraphs (b) (i) or (c) (i) below are not included in the Schedules, this Sub-Clause shall not apply. The Engineer shall determine and certify each addition if the following conditions are satisfied:
  - a) The Contractor has:
    - Kept satisfactory records (including the orders, receipts, Costs and use of Plant and Materials) which are available for inspection, and
    - ii) Submitted a statement of the Cost of acquiring and delivering the Plant and Materials to the Site, supported by satisfactory evidence; and either:
  - b) The relevant Plant and Materials:
    - i) Are those listed in the Schedules for payment when shipped,
    - ii) Have been shipped to the Country, enroute to the Site, in accordance with the Contract; and
    - iii) are described in a clean shipped bill of lading or other evidence of shipment, which has been submitted to the Engineer together with evidence of payment of freight and insurance, any other documents reasonably required, and an Procuring Entity guarantee in a form and issued by an entity approved by the Procuring Entity in amounts and currencies equal to the amount due under this Sub-Clause: this guarantee may be in a similar form to the form referred to in Sub-Clause 14.2[Advance Payment] and shall be valid until the Plant and Materials are properly stored on Site and protected against loss, damage or deterioration;
  - c) the relevant Plant and Materials:
    - i) are those listed in the Schedules for payment when delivered to the Site, and
    - ii) have been delivered to and are properly stored on the Site, are protected against loss, damage or deterioration, and appear to be in accordance with the Contract.
- The additional amount to be certified shall be the equivalent of eighty percent (80%) of the Engineer's determination of the cost of the Plant and Materials (including delivery to Site), taking account of the documents mentioned in this Sub-Clause and of the contract value of the Plant and Materials.
- The currencies for this additional amount shall be the same as those in which payment will become due when the contract value is included under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates]. At that time, the Payment Certificate shall include the applicable reduction which shall be equivalent to, and in the same currencies and proportions as, this additional amount for the relevant Plant and Materials.

### 14.6 Issue of Interim Payment Certificates

No amount will be certified or paid until the Procuring Entity has received and approved the Performance Security. Thereafter, the Engineer shall, within 30 days after receiving a Statement and supporting

documents, deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate which shall state the amount which the Engineer fairly determines to be due, with all supporting particulars for any reduction or withholding made

However, prior to issuing the Taking-Over Certificate for the Works, the Engineer shall not be bound to issue an Interim Payment Certificate in an amount which would (after retention and other deductions) be less than the minimum amount of Interim Payment Certificates (if any) stated in the SCC. In this event, the Engineer shall give notice to the Contractor accordingly.

- 14.62 An Interim Payment Certificate shall not be withheld for any other reason, although:
  - if anything supplied or work done by the Contractor is not in accordance with the Contract, the cost of rectification or replacement may be withheld until rectification or replacement has been completed; and/or
  - b) if the Contractor was or is failing to perform any work or obligation in accordance with the Contract, and had been so notified by the Engineer, the value of this work or obligation may be withheld until the work or obligation has been performed.
- The Engineer may in any Payment Certificate make any correction or modification that should properly be made to any previous Payment Certificate. A Payment Certificate shall not be deemed to indicate the Engineer's acceptance, approval, consent or satisfaction.

#### 14.7 Payment

- 14.7.1 The Procuring Entity shall pay to the Contractor:
  - a) The first instalment of the advance payment within 42 days after issuing the Letter of Acceptance or within 21 days after receiving the documents in accordance with Sub-Clause 4.2 [Performance Security] and Sub-Clause 14.2 [Advance Payment], whichever is later;
  - b) the amount certified in each Interim Payment Certificate within 56 days after the Engineer receives the Statement and supporting documents; or, at a time when the Procuring Entity's loan or credit (from which part of the payments to the Contractor is being made) is suspended, the amount shown on any statement submitted by the Contractor within 14 days after such statement is submitted, any discrepancy being rectified in the next payment to the Contractor; and
  - c) the amount certified in the Final Payment Certificate within 56 days after the Procuring Entity receives this Payment Certificate; or, at a time when the Procuring Entity's loan or credit (from which part of the payments to the Contractor is being made) is suspended, the undisputed amount shown in the Final Statement within 56 days after the date of notification of the suspension in accordance with Sub-Clause 16.2 [Termination by Contractor].
- Payment of the amount due in each currency shall be made in to the Procuring Entity account, nominated by the Contractor, in the payment country (for this currency) specified in the Contract.

#### 148 Delayed Payment

If the Contractor does not receive payment in accordance with Sub-Clause 14.7 [Payment], the Contractor shall be entitled to receive financing charges compounded monthly on the amount unpaid during the period of delay. This period shall be deemed to commence on the date for payment specified in Sub-Clause 14.7 [Payment], irrespective (in the case of its sub-paragraph (b)) of the date on which any Interim Payment Certificate is issued.

Unless otherwise stated in the Particular Conditions, these financing charges shall be calculated at the annual rate of three percentage points above the discount rate of the central Procuring Entity in the country of the currency of payment, or if not available, the inter-Procuring Entity offered rate, and shall be paid in such currency.

The Contractor shall be entitled to this payment without formal notice or certification, and without prejudice to any other right or remedy.

#### 149 Payment of Retention Money

When the Taking-Over Certificate has been issued for the Works, the first half of the Retention Money shall be certified by the Engineer for payment to the Contractor. If a Taking-Over Certificate is issued for a Section or part of the Works, a proportion of the Retention Money shall be certified and paid. This proportion shall be half (50%) of the proportion calculated by dividing the estimated contract value of the Section or part, by the estimated final Contract Price.

- Promptly after the latest of the expiry dates of the Defects Notification Periods, the outstanding balance of the Retention Money shall be certified by the Engineer for payment to the Contractor. If a Taking-Over Certificate was issued for a Section, a proportion of the second half of the Retention Money shall be certified and paid promptly after the expiry date of the Defects Notification Period for the Section. This proportion shall be half (50%) of the proportion calculated by dividing the estimated contract value of the Section by the estimated final Contract Price.
- However, if any work remains to be executed under Clause 11 [Defects Liability], the Engineer shall be entitled to withhold certification of the estimated cost of this work until it has been executed.
- When calculating these proportions, no account shall be taken of any adjustments under Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost].
- Unless otherwise stated in the Particular Conditions, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment by the Engineer, the Contractor shall be entitled to substitute a guarantee, in the form annexed to the Particular Conditions or in another form approved by the Procuring Entity and issued by a reputable Procuring Entity or financial institution selected by the Contractor, for the second half of the Retention Money. The Contractor shall ensure that the guarantee is in the amounts and currencies of the second half of the Retention Money and is valid and enforceable until the Contract or has executed and completed the Works and remedied any defects, as specified for the Performance Security in Sub-Clause 4.2. On receipt by the Procuring Entity of the required guarantee, the Engineer shall certify and the Procuring Entity shall pay the second half of the Retention Money. The release of the second half of the Retention Money against a guarantee shall then be in lieu of the release under the second paragraph of this Sub-Clause. The Procuring Entity shall return the guarantee to the Contractor within 21 days after receiving a copy of the Performance Certificate.
- If the Performance Security required under Sub-Clause 4.2 is in the form of a demand guarantee, and the amount guaranteed under it when the Taking-Over Certificate is issued is more than half of the Retention Money, then the Retention Money guarantee will not be required. If the amount guaranteed under the Performance Security when the Taking-Over Certificate is issued is less than half of the Retention Money, the Retention Money guarantee will only be required for the difference between half of the Retention Money and the amount guaranteed under the Performance Security.

#### 14.10 Statement at Completion

Within 84 days after receiving the Taking-Over Certificate for the Works, the Contractor shall submit to the Engineer six copies of a Statement at completion with supporting documents, in accordance with Sub-Clause

- 14.3 [Application for Interim Payment Certificates], showing:
- a) the value of all work done in accordance with the Contract up to the date stated in the Taking-Over Certificate for the Works,
- b) any further sums which the Contractor considers to be due, and
- c) an estimate of any other amounts which the Contractor considers will become due to him under the Contract. Estimated amounts shall be shown separately in this Statement at completion.

The Engineer shall then certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates].

#### **14.11** Application for Final Payment Certificate

- 14.11.1 Within 56 days after receiving the Performance Certificate, the Contractor shall submit, to the Engineer, six copies of a draft final statement with supporting documents showing in detail in a form approved by the Engineer:
  - a) The value of all work done in accordance with the Contract, and
  - b) Any further sums which the Contractor considers to be due to him under the Contractor otherwise.
- 14.112 If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer may reasonably require within 30 days from receipt of said draft and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Engineer the final statement as agreed. This agreed statement is referred to in these Conditions as the "Final Statement".
- 14.113 However, if, following discussions between the Engineer and the Contractor and any changes to the draft final statement which are agreed, it becomes evident that a dispute exists, the Engineer shall deliver to the Procuring Entity (with a copy to the Contractor) an Interim Payment Certificate for the agreed parts of the

draft final statement. Thereafter, if the dispute is finally resolved under Sub-Clause 20.4 [Obtaining Dispute Board's Decision] or Sub-Clause 20.5 [Amicable Settlement], the Contractor shall then prepare and submit to the Procuring Entity (with a copy to the Engineer) a Final Statement.

#### 14.12 Discharge

When submitting the Final Statement, the Contractor shall submit a discharge which confirms that the total of the Final Statement represents full and final settlement of all moneys due to the Contractor under or in connection with the Contract. This discharge may state that it becomes effective when the Contractor has received the Performance Security and the outstanding balance of this total, in which event the discharge shall be effective on such date.

#### 14.13 Issue of Final Payment Certificate

- 14.13.1 Within 30 days after receiving the Final Statement and discharge in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Engineer shall deliver, to the Procuring Entity and to the Contractor, the Final Payment Certificate which shall state:
- (a) The amount which he fairly determines is finally due, and
- (b) After giving credit to the Procuring Entity for all amounts previously paid by the Procuring Entity and for all sums to which the Procuring Entity is entitled, the balance (if any) due from the Procuring Entity to the Contractor or from the Contractor to the Procuring Entity, as the case may be.
- 14.13.1 If the Contractor has not applied for a Final Payment Certificate in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Engineer shall request the Contractor to do so. If the Contractor fails to submit an application within a period of 30 days, the Engineer shall issue the Final Payment Certificate for such amount as he fairly determines to be due.

#### 14.14 Cessation of Procuring Entity's Liability

- 14.14.1 The Procuring Entity shall not be liable to the Contractor for any matter or thing under or in connection with the Contract or execution of the Works, except to the extent that the Contractor shall have included an amount expressly for it:
  - a) In the Final Statement and also
  - b) (except for matters or things arising after the issue of the Taking-Over Certificate for the Works) in the Statement at completion described in Sub-Clause 14.10[Statement at Completion].
- 14.14.2 However, this Sub-Clause shall not limit the Procuring Entity's liability under his indemnification obligations, or the Procuring Entity's liability in any case of fraud, deliberate default or reckless misconduct by the Procuring Entity.

#### 14.15 Currencies of Payment

The Contract Price shall be paid in the currency or currencies named in the Schedule of Payment Currencies. If more than one currency is so named, payments shall be made as follows:

- a) If the Accepted Contract Amount was expressed in Local Currency only:
  - (i) The proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchange to be used for calculating the payments, shall be as stated in the Schedule of Payment Currencies, except as otherwise agreed by both Parties;
  - ii) payments and deductions under Sub-Clause 13.5 [Provisional Sums] and Sub-Clause 13.7 [Adjustments for Changes in Legislation] shall be made in the applicable currencies and proportions; and
  - iii) other payments and deductions under sub-paragraphs (a) to (d) of Sub-Clause 14.3 [Application for Interim Payment Certificates] shall be made in the currencies and proportions specified in sub-paragraph (a) (i) above;
- b) payment of the damages specified in the SCC, shall be made in the currencies and proportions specified in the Schedule of Payment Currencies;
- c) other payments to the Procuring Entity by the Contractor shall be made in the currency in which the sum was expended by the Procuring Entity, or in such currency as may be agreed by both Parties;
- d) if any amount payable by the Contractor to the Procuring Entity in a particular currency exceeds the sum payable by the Procuring Entity to the Contractor in that currency, the Procuring Entity may recover the balance of this amount from the sums otherwise payable to the Contractor in other currencies; and
- e) if no rates of exchange are stated in the Schedule of Payment Currencies, they shall be those prevailing

on the Base Date and determined by the central Procuring Entity of the Country.

#### 15. TERMINATION BY PROCURING ENTITY

#### 15.1 Notice to Correct

If the Contractor fails to carry out any obligation under the Contract, the Engineer may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.

# 15.2 Termination by Procuring Entity

- 152.1 The Procuring Entity shall be entitled to terminate the Contract if the Contractor:
  - a) fails to comply with Sub-Clause 4.2 [Performance Security] or with a notice under Sub-Clause 15.1 [Notice to Correct],
  - b) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract,
  - c) without reasonable excuse fails:
    - (i) to proceed with the Works in accordance with Clause 8 [Commencement, Delays and Suspension], or
    - ii) to comply with a notice issued under Sub-Clause 7.5 [Rejection] or Sub-[Remedial Work], within 30 days after receiving it,
  - d) subcontracts the whole of the Works or as signs the Contract without the required agreement,
  - e) becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events, or
  - f) gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an inducement or reward:
    - i) for doing or forbearing to do any action in relation to the Contract, or
    - ii) for showing or for bearing to show favor or disfavor to any person in relation to the Contract, or if any of the Contractor's Personnel, agents or Subcontractors gives or offers to give (directly or indirectly) to any person any such inducement or reward as is described in this sub-paragraph (f). However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination, or
  - g) based on reasonable evidence, has engaged in Fraud and Corruption as defined in paragraph 2.2 of the Appendix B to these General Conditions, in competing for or in executing the Contract.
- In any of these events or circumstances, the Procuring Entity may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of subparagraph (e) or (f) or (g), the Procuring Entity may by notice terminate the Contract immediately.
- The Procuring Entity's election to terminate the Contract shall not prejudice any other rights of the Procuring Entity, under the Contract or otherwise.

The Contractor shall then leave the Site and deliver any required Goods, all Contractor's Documents, and other design documents made by or for him, to the Engineer. However, the Contractor shall use his Lowest efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any subcontract, and (ii) for the protection of life or property or for the safety of the Works.

After termination, the Procuring Entity may complete the Works and/or arrange for any other entities to do so. The Procuring Entity and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.

The Procuring Entity shall then give notice that the Contractor's Equipment and Temporary Works will be released to the Contractor at or near the Site. The Contractor shall promptly arrange their removal, at the risk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Procuring Entity, these items may be sold by the Procuring Entity in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.

#### 153 Valuation at Date of Termination

As soon as practicable after a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the

Contractor for work executed in accordance with the Contract.

# 15.4 Payment after Termination

After a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Procuring Entity may:

- a) Proceed in accordance with Sub-Clause 2.5 [Procuring Entity's Claims],
- b) Withhold further payments to the Contractor until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Procuring Entity, have been established, and/or
- c) Recover from the Contractor any losses and damages incurred by the Procuring Entity and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Procuring Entity shall pay any balance to the Contractor.

#### 155 Procuring Entity's Entitlement to Termination for Convenience

- 155.1 The Procuring Entity shall be entitled to terminate the Contract, at any time for the Procuring Entity's convenience, by giving notice of such termination to the Contractor. The termination shall take effect 30 days after the later of the dates on which the Contractor receives this notice or the Procuring Entity returns the Performance Security. The Procuring Entity shall not terminate the Contract under this Sub-Clause in order to execute the Works itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor under Clause 16.2[Termination by Contractor].
- After this termination, the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment] and shall be paid in accordance with Sub-Clause 16.4 [Payment on Termination].

#### 15.6 Fraud and Corruption

The Procuring Entity requires compliance with the national law and regulations against corruption. All available sanctions will apply where corruption is detected.

#### 16. SUSPENSION AND TERMINATION BY CONTRACTOR

# 16.1 Contractor's Entitlement to Suspend Work

- 16.1.1 If the Engineer fails to certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] or the Procuring Entity fails to comply with Sub-Clause 2.4 [Procuring Entity's Financial Arrangements] or Sub- Clause 14.7 [Payment], the Contractor may, after giving not less than 21days' notice to the Procuring Entity, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment Certificate, reasonable evidence or payment, as the case may be and as described in the notice.
- Notwithstanding the above, if the Procuring Entity has suspended disbursements under the loan or credit from which payments to the Contractor are being made, in whole or in part, for the execution of the Works, and no alternative funds are available as provided for in Sub-Clause 2.4 [Procuring Entity's Financial Arrangements], the Contractor may by notice suspend work or reduce the rate of work at any time, but not less than 7 days after the Procuring Entity having received the suspension notification from the Procuring Entity.
- 16.13 The Contractor's action shall not prejudice his entitlements to financing charges under Sub-Clause 14.8 [Delayed Payment] and to termination under Sub-Clause 16.2[Termination by Contractor].
- 16.14 If the Contractor subsequently receives such Payment Certificate, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.
- 16.15 If the Contractor suffers delay and/or incurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.

161.6 After receiving this notice, the Engineers hall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

#### 16.2 Termination by Contractor

- 162.1 The Contractor shall be entitled to terminate the Contract if:
  - a) the Contractor does not receive the reasonable evidence within 42 days after giving notice under Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work] in respect of a failure to comply with Sub-Clause 2.4 [Procuring Entity's Financial Arrangements],
  - b) the Engineer fails, within 56 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,
  - c) the Contractor does not receive the amount due under an Interim Payment Certificate within 42 days after the expiry of the time stated in Sub-Clause 14.7 [Payment] within which payment is to be made (except for deductions in accordance with Sub-Clause 2.5 [Procuring Entity's Claims]),
  - d) the Procuring Entity substantially fails to perform his obligations under the Contract in such manner as to materially and adversely affect the economic balance of the Contract and/or the ability of the Contractor to perform the Contract,
  - e) the Procuring Entity fails to comply with Sub-Clause 1.6 [Contract Agreement] or Sub-Clause 1.7 [Assignment],
  - f) a prolonged suspension affects the whole of the Works as described in Sub-Clause 8.11 [Prolonged Suspension], or
  - g) the Procuring Entity becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.
  - h) The Contractor does not receive the Engineer's instruction recording the agreement of both Parties on the fulfilment of the conditions for the Commencement of Works under Sub-Clause 8.1 [Commencement of Works.
- In any of these events or circumstances, the Contractor may, upon giving 14 days' notice to the Procuring Entity, terminate the Contract. However, in the case of sub-paragraph (f) or (g), the Contractor may by notice terminate the Contract immediately.
- In the event the Procuring Entity suspends the loan or credit from which part or whole of the payments to the Contractor are being made, if the Contractor hasnot received the sums due to him upon expiration of the 14 days referred to in Sub-Clause 14.7 [Payment] for payments under Interim Payment Certificates, the Contractor may, without prejudice to the Contractor's entitlement to financing charges under Sub-Clause 14.8 [Delayed Payment], take one of the following actions, namely (i) suspend work or reduce the rate of work under Sub-Clause 16.1 above, or (ii) terminate the Contract by giving notice to the Procuring Entity, with a copy to the Engineer, such termination to take effect 14 days after the giving of the notice.

The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contract or otherwise.

#### 163 Cessation of Work and Removal of Contractor's Equipment

After a notice of termination under Sub-Clause 15.5 [Procuring Entity's Entitlement to Termination for Convenience], Sub-Clause 16.2 [Termination by Contractor] or Sub-Clause 19.6 [Optional Termination, Payment and Release] has taken effect, the Contractor shall promptly:

- a) Cease all further work, except for such work as may have been instructed by the Engineer for the protection of life or property or for the safety of the Works,
- b) Handover Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
- c) Remove all other Goods from the Site, except as necessary for safety, and leave the Site.

#### **16.4** Payment on Termination

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, the Procuring Entity shall promptly:

a) Return the Performance Security to the Contractor,

- b) pay the Contractor in accordance with Sub-Clause 19.6 [Optional Termination, Payment and Release], and
- c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

#### 17. RISK AND RESPONSIBILITY

#### 17.1 Indemnities

- 17.1.1 The Contractor shall indemnify and hold harmless the Procuring Entity, the Procuring Entity's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:
- (a) Bodily injury, sickness, disease or death, of any person whatsoever arising out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, willful actor breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of the irrespective agents, and
- (b) Damage to or loss of any property, real or personal (other than the Works), to the extent that such damage or loss arises out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless and to the extent that any such damage or loss is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, the irrespective agents, or any one directly or indirectly employed by any of them.
- 17.12 The Procuring Entity shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any oftheir respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of Sub-Clause 18.3 [Insurance Against Injury to Persons and Damage to Property].

#### 172 Contractor's Care of the Works

- The Contractor shall take full responsibility for the care of the Works and Goods from the Commencement Date until the Taking-Over Certificate is issued (or is deemed to be issued under Sub-Clause 10.1 [Taking Over of the Works and Sections]) for the Works, when responsibility for the care of the Works shall pass to the Procuring Entity. If a Taking-Over Certificate is issued (or is so deemed to be issued) for any Section or part of the Works, responsibility for the care of the Section or part shall then pass to the Procuring Entity.
- After responsibility has accordingly passed to the Procuring Entity, the Contractor shall take responsibility for the care of any work which is outstanding on the date stated in a Taking-Over Certificate, until this outstanding work has been completed.
- If any loss or damage happens to the Works, Goods or Contractor's Documents during the period when the Contractor is responsible for their care, from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks], the Contractor shall rectify the loss or damage at the Contractor's risk and cost, so that the Works, Goods and Contractor's Documents conform with the Contract.
- 1724 The Contractor shall be liable for any loss or damage caused by any actions performed by the Contractor aftera Taking-Over Certificate has been issued. The Contractor shall also be liable for any loss or damage which occurs after a Taking-Over Certificate has been issued and which arose from a previous event for which the Contractor was liable.

## 173 Procuring Entity's Risks

The risks referred to in Sub-Clause 17.4 [Consequences of Procuring Entity's Risks] below, insofar as they directly affect the execution of the Works in the Country, are:

- a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war, within the Country,

- c) riot, commotion or disorder within the Country by persons other than the Contractor's Personnel,
- d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, within the Country, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity,
- e) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds,
- f) use or occupation by the Procuring Entity of any part of the Permanent Works, except as may be specified in the Contract,
- g) design of any part of the Works by the Procuring Entity's Personnel or by others for whom the Procuring Entity is responsible, and
- h) any operation of the forces of nature which is Unforeseeable or against which an experienced contractor could not reasonably have been expected to have taken adequate preventive precautions.

#### 17.4 Consequences of Procuring Entity's Risks

- 17.4.1 If and to the extent that any of the risks listed in Sub-Clause 17.3 above results in loss or damage to the Works, Goods or Contractor's Documents, the Contractor shall promptly give notice to the Engineer and shall rectify this loss or damage to the extent required by the Engineer.
- 1742 If the Contractor suffers delay and/or incurs Cost from rectifying this loss or damage, the Contractor shall give a further notice to the Engineer and shall be entitled subject to Sub-Clause 20.1[Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost, which shall be included in the Contract Price. In the case of sub-paragraphs (f) and (g) of Sub-Clause 17.3 [Procuring Entity's Risks], Cost plus profit shall be payable.
- 1743 After receiving this further notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

# 175 Intellectual and Industrial Property Rights

- 175.1 In this Sub-Clause, "infringement" means an infringement (or alleged infringement) of any patent, registered design, copyright, trademark, tradename, trade secret or other intellectual or industrial property right relating to the Works; and "claim" means a claim (or proceedings pursuing a claim) alleging an infringement.
- Whenever a Party does not give notice to the other Party of any claim within 30 days of receiving the claim, the first Party shall be deemed to have waived any right to indemnity under this Sub-Clause.
- 1753 The Procuring Entity shall indemnify and hold the Contractor harmless against and from any claim alleging an infringement which is or was:
  - a) An unavoidable result of the Contractor's compliance with the Contract, or
  - b) A result of any Works being used by the Procuring Entity:
    - i) For a purpose other than that indicated by, or reasonably to be inferred from, the
    - ii) Contract, or
    - iii) in conjunction with anything not supplied by the Contractor, unless such use was disclosed to the Contractor prior to the Base Date or is stated in the Contract.
- 175.4 The Contractor shall indemnify and hold the Procuring Entity harmless against and from any other claim which arises out of or in relation to (i) the manufacture, use, sale or import of any Goods, or (ii) any design for which the Contractor is responsible.
- If a Party is entitled to be indemnified under this Sub-Clause, the indemnifying Party may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it. The other Party shall, at the request and cost of the indemnifying Party, assist in contesting the claim. This other Party (and its Personnel) shall not make any admission which might be prejudicial to the indemnifying Party, unless the indemnifying Party failed to take over the conduct of any negotiations, litigation or arbitration upon being requested to do so by such other Party.

#### 17.6 Limitation of Liability

Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contractor

for any indirect or consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-Clause 16.4 [Payment on Termination]; Sub-Clause 17.1 [Indemnities]; Sub-Clause 17.4 (b) [Consequences of Procuring Entity's Risks] and Sub-Clause 17.5[Intellectual and Industrial Property Rights].

- The total liability of the Contractor to the Procuring Entity, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub-Clause 4.20 [Procuring Entity's Equipment and Free- Issue Materials], Sub-Clause 17.1 [Indemnities] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum resulting from the application of a multiplier (less or greater than one) to the Accepted Contract Amount, as stated in the SCC, or (if such multiplier or other sum is not so stated) the Accepted Contract Amount.
- 17.63 This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.

#### 17.7 Use of Procuring Entity's Accommodation/Facilities

- 17.7.1 The Contractor shall take full responsibility for the care of the Procuring Entity provided accommodation and facilities, if any, as detailed in the Specification, from the respective dates of hand-over to the Contract or until cessation of occupation (where hand-over or cessation of occupation may take place after the date stated in the Taking-Over Certificate for the Works).
- 17.72 If any loss or damage happens to any of the above items while the Contractor is responsible for their care arising from any cause whatsoever other than those for which the Procuring Entity is liable, the Contractor shall, at his own cost, rectify the loss or damage to the satisfaction of the Engineer.

#### 18. INSURANCE

#### **18.1** General Requirements for Insurances

- 18.1.1 In this Clause, "insuring Party" means, for each type of insurance, the Party responsible for effecting and maintaining the insurance specified in the relevant Sub-Clause.
- 18.12 Wherever the Contractor is the insuring Party, each insurance shall be effected with insurers and in terms approved by the Procuring Entity. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- 18.13 Wherever the Procuring Entity is the insuring Party, each insurance shall be effected with insurers and in terms acceptable to the Contractor. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- If a policy is required to indemnify joint insured, the cover shall apply separately to each insured as though a separate policy had been issued for each of the joint insured. If a policy indemnifies additional joint insured, namely in addition to the insured specified in this Clause, (i) the Contractor shall act under the policy on behalf of these additional joint insured except that the Procuring Entity shall act for Procuring Entity's Personnel, (ii) additional joint insured shall not be entitled to receive payments directly from the insurer or to have any other direct dealings with the insurer, and (iii) the insuring Party shall require all additional joint insured to comply with the conditions stipulated in the policy.
- 18.15 Each policy insuring against loss or damage shall provide for payments to be made in the currencies required to rectify the loss or damage. Payments received from insurers shall be used for the rectification of the loss or damage.
- 18.1.6 The relevant insuring Party shall, within the respective periods stated in the SCC (calculated from the Commencement Date), submit to the other Party:
  - a) Evidence that the insurances described in this Clause have been effected, and
  - b) copies of the policies for the insurances described in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment] and Sub-Clause 18.3 [Insurance against Injury to Persons and Damage to Property].
- 18.1.7 When each premium is paid, the insuring Party shall submit evidence of payment to the other Party. Whenever evidence or policies are submitted, the insuring Party shall also give notice to the Engineer.

- 18.18 Each Party shall comply with the conditions stipulated in each of the insurance policies. The insuring Party shall keep the insurers informed of any relevant changes to the execution of the Works and ensure that insurance is maintained in accordance with this Clause.
  - Neither Party shall make any material alteration to the terms of any insurance without the prior approval of the other Party. If an insurer makes (or attempts to make) any alteration, the Party first notified by the insurer shall promptly give notice to the other Party.
- 18.19 The insuring Party fails to effect and keep in force any of the insurances it is required to effect and maintain under the Contract or fails to provide satisfactory evidence and copies of policies in accordance with this Sub- Clause, the other Party may (at its option and without prejudice to any other right or remedy) effect insurance for the relevant coverage and pay the premiums due. The insuring Party shall pay the amount of these premiums to the other Party, and the Contract Price shall be adjusted accordingly.
- 18.1.10 Nothing in this Clause limits the obligations, liabilities or responsibilities of the Contractor or the Procuring Entity, under the other terms of the Contractor otherwise. Any amounts not insured or not recovered from the insurers shall be borne by the Contractor and/or the Procuring Entity in accordance with these obligations, liabilities or responsibilities. However, if the insuring Party fails to effect and keep in force an insurance which is available and which it is required to effect and maintain under the Contract, and the other Party neither approves the omission nor effects insurance for the coverage relevant to this default, any moneys which should have been recoverable under this insurance shall be paid by the insuring Party.
- 18.1.11 Payments by one Party to the other Party shall be subject to Sub-Clause 2.5 [Procuring Entity's Claims] or Sub-Clause 20.1 [Contractor's Claims], as applicable.
- 18.1.12 The Contractor shall be entitled to place all insurance relating to the Contract (including, but not limited to the insurance referred to Clause 18) with insurers from any eligible source country.

## 182 Insurance for Works and Contractor's Equipment

- The insuring Party shall insure the Works, Plant, Materials and Contractor's Documents for not less than the full reinstatement cost including the costs of demolition, removal of debris and professional fees and profit. This insurance shall be effective from the date by which the evidence is to be submitted under sub-paragraph (a) of Sub-Clause 18.1 [General Requirements for Insurances], until the date of issue of the Taking-Over Certificate for the Works.
- The insuring Party shall maintain this insurance to provide cover until the date of issue of the Performance Certificate, for loss or damage for which the Contractor is liable arising from a cause occurring prior to the issue of the Taking-Over Certificate, and for loss or damage caused by the Contractor in the course of any other operations (including those under Clause 11 [Defects Liability]).
- The insuring Party shall insure the Contractor's Equipment for not less than the full replacement value, including delivery to Site. For each item of Contractor's Equipment, the insurance shall be effective while it is being transported to the Site and until it is no longer required as Contractor's Equipment.
- 1824 Unless otherwise stated in the Particular Conditions, insurances under this Sub-Clause:
  - a) Shall be effected and maintained by the Contractor as insuring Party,
  - b) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from the insurers, payments being held or allocated to the Party actually bearing the costs of rectifying the loss or damage,
  - c) shall cover all loss and damage from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks],
  - d) shall also cover, to the extent specifically required in the tendering documents of the Contract, loss or damage to a part of the Works which is attributable to the use or occupation by the Procuring Entity of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and (h) of Sub-Clause 17.3 [Procuring Entity's Risks], excluding (in each case) risks which are not insurable at commercially reasonable terms, with deductibles per occurrence of not more than the amount stated in the SCC(if an amount is not so stated, this sub-paragraph (d) shall not apply), and
  - e) may however exclude loss of, damage to, and reinstatement of:
    - i) a part of the Works which is in a defective condition due to a defect in its design, materials or workmanship (but cover shall include any other parts which are lost or damaged as a direct result of this defective condition and not as described in sub-paragraph (ii) below),
    - ii) a part of the Works which is lost or damaged in order to reinstate any other part of the Works if this other part is in a defective condition due to a defect in its design, materials or workmanship,

- iii) a part of the Works which has been taken over by the Procuring Entity, except to the extent that the Contractor is liable for the loss or damage, and
- iv) Goods while they are not in the Country, subject to Sub-Clause 14.5 [Plant and Materials intended for the Works].
- If, more than one year after the Base Date, the cover described in sub-paragraph (d) above ceases to be available at commercially reasonable terms, the Contractor shall (as insuring Party) give notice to the Procuring Entity, with supporting particulars. The Procuring Entity shall then (i) be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to payment of an amount equivalent to such commercially reasonable terms as the Contractor should have expected to have paid for such cover, and (ii) be deemed, unless he obtains the cover at commercially reasonable terms, to have approved the omission under Sub-Clause 18.1 [General Requirements for Insurances].

# 183 Insurance against Injury to Persons and Damage to Property

- 183.1 The insuring Party shall insure against each Party's liability for any loss, damage, death or bodily injury which may occur to any physical property (except things insured under Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment]) or to any person (except persons insured under Sub-Clause 18.4 [Insurance for Contractor's Personnel]), which may arise out of the Contractor's performance of the Contract and occurring before the issue of the Performance Certificate.
- This insurance shall be for a limit per occurrence of not less than the amount stated in the **SCC**, with no limit on the number of occurrences. If an amount is not stated in the **SCC**, this Sub-Clause shall not apply. Unless otherwise stated in the Particular Conditions, the insurances specified in this Sub-Clause:
  - a) Shall be effected and maintained by the Contractor as insuring Party,
  - b) Shall be in the joint names of the Parties,
  - c) Shall be extended to cover liability for all loss and damage to the Procuring Entity's property (except things insured under Sub-Clause 18.2) arising out of the Contractor's performance of the Contract, and
  - d) May however exclude liability to the extent that it arises from:
    - i) The Procuring Entity's right to have the Permanent Works executed on, over, under, in or through any land, and to occupy this land for the Permanent Works,
    - ii) damage which is an unavoidable result of the Contractor's obligations to execute the Works and remedy any defects, and
    - iii) a cause listed in Sub-Clause 17.3 [Procuring Entity's Risks], except to the extent that cover is available at commercially reasonable terms.

#### 184 Insurance for Contractor's Personnel

- 184.1 The Contract or shall effect and maintain insurance against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel.
- The insurance shall cover the Procuring Entity and the Engineer against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Procuring Entity or of the Procuring Entity's Personnel.
- The insurance shall be maintained in full force and effect during the whole time that these personnel are assisting in the execution of the Works. For a Subcontractor's employees, the insurance may be effected by the Subcontractor, but the Contractor shall be responsible for compliance with this Clause.

#### 19. FORCE MAJEURE

## 19.1 Definition of Force Majeure

In this Clause, "Force Majeure" means an exceptional event or circumstance:

- a) Which is beyond a Party's control,
- b) Which such Party could not reasonably have provided against before entering into the Contract,
- c) which, having arisen, such Party could not reasonably have avoided or overcome, and
- d) which is not substantially attributable to the other Party.

Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- ii) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
- iii) riot, commotion, disorder, strike or lock out by persons other than the Contractor's Personnel,
- iv) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
- v) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

#### 192 Notice of Force Majeure

- If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.
- The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.

Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.

#### 193 Duty to Minimize Delay

Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of the Contract as a result of Force Majeure. A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.

#### 194 Consequences of Force Majeure

- 194.1 If the Contractor is prevented from performing his substantial obligations under the Contract by Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], and suffers delay and/or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) if the event or circumstance is of the kind described in sub-paragraphs (i) to (iv) of Sub-Clause 19.1 [Definition of Force Majeure] and, in sub-paragraphs (ii) to (iv), occurs in the Country, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment].
- 1942 After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

#### 195 Force Majeure Affecting Subcontractor

If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's non-performance or entitle him to relief under this Clause.

#### 19.6 Optional Termination, Payment and Release

If the execution of substantially all the Works in progress is prevented for a continuous period of 84 days by reason of Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], or for multiple periods which total more than 140 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment].

Upon such termination, the Engineer shall determine the value of the work done and issue a Payment Certificate which shall include:

- a) The amounts payable for any work carried out for which a price is stated in the Contract;
- b) The Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Procuring Entity when paid for by the Procuring Entity, and the Contractor shall place the same at the Procuring Entity's disposal;
- c) other Cost or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;
- d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and there turn of these items to the Contractor's works in his country (or t any other destination at no greatercost);and
- e) the Cost of repatriation of the Contractor's staff and labor employed wholly in connection with the Works at the date of termination.

#### 19.7 Release from Performance

Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises which makes it impossible or unlawful for either or both Parties to fulfil its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance:

- a) The Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract, and
- b) The sum payable by the Procuring Entity to the Contractor shall be the same as would have been payable under Sub-Clause 19.6 [Optional Termination, Payment and Release] if the Contract had been terminated under Sub-Clause 19.6.

#### 20.1 Contractor's Claims

- 20.1.1 If the Contractor considers itself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give Notice to the Engineer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 30 days after the Contractor became aware, or should have become aware, of the event or circumstance.
- 20.12 If the Contractor fails to give notice of a claim within such period of 30 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entity shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.
- 20.13 The Contractor shall also submit any other notices which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.
- 20.13 The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Engineer. Without admitting the Procuring Entity's liability, the Engineer may, after receiving any notice under this Sub-Clause, monitor the record-keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Engineer to inspect all these records, and shall (if instructed) submit copies to the Engineer.
- 20.1.4 Within 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Engineer, the Contractor shall send to the Engineer a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:
  - a) This fully detailed claim shall be considered as interim;
  - b) The Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Engineer may reasonably require; and
  - c) The Contractor shall send a final claim within 30 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Engineer.
- 20.15 Within 42 days after receiving a Notice of a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Engineer and approved by the Contractor, the Engineer shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within the above defined time period.
- 20.1.6 Within the above defined period of 42 days, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with Sub-Clause 8.4 [Extension of Time for Completion], and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract.
- 20.1.7 Each Payment Certificate shall include such additional payment for any claim as has been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.
- 20.18 If the Engineer does not respond within the time frame defined in this Clause, either Party may consider that the claim is rejected by the Engineer and any of the Parties may refer to Arbitration in accordance with Sub-Clause 20.4 [Arbitration].
- 20.19 The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of Sub- Clause 20.3 (f).

#### 20.2 Amicable Settlement

Where a notice of a claim has been given, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, the Party giving a notice of a claim in accordance with Sub-Clause 20.1 above should move to commence arbitration after the fifty-sixth day from the day on which a notice of a claim was given, even if no attempt at an amicable settlement has been made.

## 20.3 Matters that may be referred to arbitration

Notwithstanding anything stated herein the following matters may be referred to arbitration before the practical completion of the Works or abandonment of the Works or termination of the Contract by either party:

- a) The appointment of a replacement Engineer upon the said person ceasing to act.
- b) Whether or not the issue of an instruction by the Engineer is empowered by these Conditions.
- c) Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- e) Any dispute arising in respect of war risks or war damage.
- f) All other matters shall only be referred to arbitration after the completion or alleged completion of the Works or termination or alleged termination of the Contract, unless the Procuring Entity and the Contract or agree otherwise in writing.

#### 20.4 Arbitration

- 204.1 Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 20.3 shall be finally settled by arbitration.
- No arbitration proceedings shall be commenced on any claim or dispute where notice of a claim or dispute has not been given by the applying party within ninety days of the occurrence or discovery of the matter or issue giving rise to the dispute.
- 20.4.3 Notwithstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third parties. Proof of such attempt shall be required.
- 20.4.4 The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, tests or valuations as may in his opinion be desirable in order to determine the rights of the parties and assess and award any sums which ought to have been the subject of or included in any certificate.
- 20.4.5 The Arbitrator shall, without prejudice to the generality of his powers, have powers to open up, review and revise any certificate, opinion, decision, requirement or notice and to determine all matters in dispute which shall be submitted to him in the same manner as if no such certificate, opinion, decision requirement or notice had been given.
- 20.4.6 The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer, relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Engineer from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.
- Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for dissatisfaction given in its Notice of Dissatisfaction.
- 20.4.7 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Engineer shall not be altered by reason of any arbitration being conducted during the progress of the Works.
- 20.4.8 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

#### **205** Arbitration with National Contractors

205.1 if the Contract is with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an

Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;

- i) Architectural Association of Kenya
- ii) Institute of Quantity Surveyors of Kenya
- iii) Association of Consulting Engineers of Kenya
- iv) Chartered Institute of Arbitrators (Kenya Branch)
- v) Institution of Engineers of Kenya
- 2052 The institution written to first by the aggrieved party shall take precedence over all other institutions.

## **20.6** Arbitration with Foreign Contractors

- 207.1 Arbitration with foreign contractors shall be conducted in accordance with the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL); or with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration; by one or more arbitrators appointed in accordance with said arbitration rules.
- The place of arbitration shall be a location specified in the SCC; and the arbitration shall be conducted in the language for communications defined in Sub-Clause 1.4 [Law and Language].

#### 207 Alternative Arbitration Proceedings

Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

## 208 Failure to Comply with Arbitrator's Decision

- 2081 The award of such Arbitrator shall be final and binding upon the parties.
- 2082 In the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Party may, without prejudice to any other rights it may have, refer the matter to a competent court of law.

#### 10.7 Contract operations continue

Notwithstanding any reference to arbitration herein,

- a) The parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- b) The Procuring Entity shall pay the Contractor any monies due the Contractor.

# SECTION IX - SPECIAL CONDITIONS OF CONTRACT

The following Particular Conditions shall supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

Conditions	GCC Clause	Data		
Procuring Entity's name and	1.1.2	Kenya Airports Authority		
address		P.O Box 19001-00501		
		Nairobi		
Contractor's name and address	1.1.2	Insert the name		
Engineer's name and address	1.1.2	General Manager- Projects & Engineering Services		
anger se una una ess		Kenya Airports Authority		
		P.O Box 19001-00501		
		Nairobi		
	1.1.2			
Completion Certificate	1.1.3	Completion Certificate and Performance Certificate shall		
		be applied interchangeably		
Time for Completion	1.1.3	18 Months from Commencement Date.		
Section	1.1.5	Not applicable		
Electronic transmission	1.3.1(a)	The systems of electronic transmission shall be official e-		
Electionic transmission	1.3.1(a)	l v		
A 1 1	1.2.1(1.)	mail provided.		
Address for Notices	1.3.1(b)	Insert addresses		
Priority of documents	1.5.1	1. The Contract Agreement - FORM No. 4,		
		2. The Letter of Acceptance,		
		3. The Form of Tender,		
		4. The Special Conditions of Contract,		
		5. The General Conditions of Contract		
		6. The Special Specifications		
		7. The General Specifications		
		8. The Drawings		
		9. the Bills of Quantities and		
		10.the Schedules and any other documents forming part		
		of the Contract		
	of the contract			
Time for the Parties entering	1.6	The Parties shall enter into a Contract Agreement within		
	O I			
into a Contract Agreement		28 days after the Contractor receives the Letter of		
	4.5	Acceptance.		
Assignment	1.7	Not applicable		
Inspections and Audit by the	1.15	Delete the words "Pursuant to paragraph 2.2 e. of		
Procuring Entity		Appendix B to the General Conditions"		
Time for access to the Site	2.1.1	Before issuance of Notice to Commence.		
	2.1.2	As per SCC 2.1.1		
Employer's Financial	2.4	Delete clause in its entirety		
1 2	2.7	Defect clause in its churcty		
Arrangements Engineer's Duties and	2.1.2 (1.) (2.)	00/		
Engineer's Duties and	3.1.2 (b) (ii)	0%		
Authority				
<b>Performance Security</b>	4.2.1	Not Applicable		
	4.2.2	The Performance Security shall be 10% of the Contract		
		Price and shall be in Kenya Shillings.		
	4.2.3	Delete and replace with:		
		2 ctcto with reprince truth		
		The Derformance Sequential shell be issued by a bould leasted		
		The Performance Security shall be issued by a bank located		
		in Kenya, licensed by the Central Bank of Kenya and		
		acceptable to the Procuring Entity and in the form provided		
		in Section III.		
		The Procuring Entity shall seek authentication of the		
L	l .	110001110 21101 John authoritication of the		

Conditions	GCC Clause	Data	
		Performance Security from the issuing bank. It is the responsibility of the Contractor to ensure that: -  (i) the issuing bank responds with reasonable dispatch to an inquiry from the Procuring Entity. Failure by the issuing bank to respond to the inquiry within a reasonable period may lead to the Contractor's Performance Security being rejected and returned.	
		The Performance Security shall be valid and enforceable until the Contractor has executed and completed the Works and remedied any defects and upto the time of issuance of the Performance Certificate.	
		Or	
		Cash deposit equivalent refundable upon issuance of Taking Over Certificate.	
		The Contractor shall furnish the Engineer with a copy of the performance security.	
Contractor's Representative's name	4.3	[insert the name of the Contractor's Representative agreed by the Procuring Entity prior to Contract signature]	
Nominated Subcontractors Working Hours	5 6.5	Not applicable Normal working hours shall be Monday to Friday 0800hrs	
		to 1700hrs local time with a lunch break between 1300hrs to 1400hrs.  The Contractor shall provide the Contractor's Personnel and Engineer's support staff annual holiday and sick, maternity and family leave, as required by applicable Laws or as stated in the Specification."	
Key Personnel names	6.9.1	[insert the name of each Key Personnel agreed by the Procuring Entity prior to Contract signature]	
Commencement of Works	8.1.1(a, b, c &d)	Delete and replace with;  The Commencement Date shall be 14days after the Engineer has issued Notice of Commencement. This shall be issued after the following precedent conditions have all been fulfilled:  a) Submission of Performance Guarantee in accordance with Clause 4.2 of the GCC b) Signature of the Contract Agreement by both Parties. c) Submission of revised program of works in the form and detail provided for under Clause 8.3 of GCC d) Access to the Site as provided in Clause 2.1 of the SCC. e) Submission of Insurance Policies f) Issuance of NOTAM (Where applicable)	
Delay Damages	8.7.1	Delay damages shall be Kshs 100,000.00 of the final Contract Price per day of delay.	
Maximum amount of delay damages	8.7.1	10% of the final Contract Price.	

Conditions	GCC Clause	Data	
Defects Liability	11	365 days from date stated in Taking Over Certificate.	
Method of Measurement	12.2	Civil Engineering Method of Measurement	
	12.3.2 a(ii, iii)	However, a new rate or price shall be appropriate for an item of work if:  a)  ii) This change in quantity multiplied by such specified rate for this item exceeds 25% of the Accepted Contract Amount,  iii) This change in quantity directly changes the Cost per unit quantity of this item by more than 10%, and	
Provisional Sums	13.5. (b)(iii)	As per priced bill of quantities	
Adjustments for Changes in	13.8	Not Applicable	
Cost			
Contract Price	14.1.1(a)	The Contract Price shall be as per the form of tender.	
<b>Advance Payment Guarantee</b>	14.2.1	Delete and replace with:	
		The Advance Payment Guarantee shall be issued by a bank located in Kenya, licensed by the Central Bank of Kenya and acceptable to the Procuring Entity and in the form provided in Section III.	
Advance Payment	14.2	Not applicable	
Limit of Retention	14.3.2(c)	The limit of Retention Money shall be 10% of the Contract Amount.	
Percentage of Retention	14.3.2(c)	10% of each Interim Payment Certificate	
Plant and Materials	14.5.2(b)(i) 14.5.2(c)(i)	If Sub-Clause 14.5 applies: Plant and Materials for payment Free on Board Not applicable Plant and Materials for payment when delivered to the Site	
		Not applicable	
Minimum Amount of Interim Payment Certificates	14.6.1	Kshs10,000,000	
Interim Payment Certificate	14.6.2	<ul> <li>Add the following;</li> <li>Default in Contractor's obligation but not limited to</li> <li>i. Non payment of Engineer's staff salaries</li> <li>ii. Submission of revised programme</li> <li>iii. Submission of Insurances.</li> <li>iv. Extension of expiry of Performance Guarantee where applicable.</li> <li>v. Abandonment of site without notice to Engineer</li> <li>vi. Non remittance of payments for material tests.</li> <li>vii. Non facilitation of transport for engineer and his staff.</li> </ul>	
Interim Payment Certificate	14.6.3	In addition	
		No incorrect statement or supporting documents shall be certified, no correction should be done by the Engineer, all required corrections shall be done by the Contractor including correction of Amounts.	
Payment	14.7.1. b	Within 60 days of submission of Certified Interim Payment Certificate to the Procuring Entity by the Engineer	

Conditions	GCC Clause	Data		
<b>Delayed Payment</b>	14.8.1	Delete and replace with:		
		If the Contractor does not receive payment in accordance		
		with Sub-Clause 14.7 [Payment], the Contractor shall be		
		entitled to receive financing charges computed annually		
		on simple interest on the amount unpaid during the period		
		of delay. This period shall be deemed to commence on the		
		date for payment specified in Sub-Clause 14.7 [Payment],		
		irrespective (in the case of its sub-paragraph (b)) of the		
		date on which any Interim Payment Certificate is issued.		
		The maximum interest payable will be capped at the value		
		of the principal amount.		
Publishing source of	14.8.2	Calculated at the annual rate of three percentage points		
commercial interest rates for		above the discount rate as determined by Central Bank of		
financial charges in case of		Kenya.		
delayed payment				
Notice to correct	15.1	Replace "reasonable time" with Within the time stated in		
		the Notice to Correct		
Maximum total liability of the 17.6.2		The man dense of 2 dimension Assessment Assessment		
Contractor to the Procuring		The product of 2 times the Accepted Contract Amount,		
Entity Periods for submission of	18.1.6	14 1		
	18.1.0	<b>a</b> . evidence of insurance. – 14 days after signing of Contract		
insurance:				
M	10.2.4.(4)	b. relevant policies14 days after signing of Contract 10% of Contract Amount		
Maximum number of deductibles for insurance of the	18.2. 4 (d)	10% of Contract Amount		
Procuring Entity's risks Minimum amount of third-	18.3.2	[10% of Contract Amount]		
party insurance	10.3.4	According to the Laws of Kenya		
	20.5	Arbitrator shall be appointed by the registrar of Nairobi		
Arbitration with National Arbitration		Centre for International Arbitration		
Contractors				
The place of arbitration	20.7.2	The place of arbitration shall be in Nairobi		

Conditions	GCC Clause	Data		
Procuring Entity's name and address Engineer's name and address	1.1.3 1.1.3	Kenya Airports Authority P.O. Box 19001-00501 The said "Engineer" shall be General Manager – Projects and Engineering Services, Kenya Airports Authority, P.O. Box 19001 – 00501, Nairobi, Kenya or any other "Competent Person" appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer. The "Competent Person" may be an individual(s), a consultancy firm, a Government Agency, or any combination of professionals to be appointed at the discretion of the Employer.		
Engineer's Duties and Authority	3.1	<ul> <li>The Engineer shall obtain specific approval of the Employer before taking any of the following actions specified in Part I: <ol> <li>(i) Consenting to the sub-letting of any part of the Works.</li> <li>(ii) Certifying additional cost determined</li> <li>(iii) Determining an extension of time</li> <li>(iv) Issuing a variation except in an emergency situation as reasonably determined by the Engineer.</li> <li>(v) Fixing rates or prices</li> </ol> </li> </ul>		
Subcontractors	4.4	No single subcontract may be for more than 10 percent of the Contract Price nor shall the sum of all subcontracts exceed 25 percent of the Contract price. No one subcontractor may be awarded subcontracts to a total value greater than 10 percent of the Contract Price. All subcontracts greater than 2 percent of the Contract Price are to have the prior consent of the Engineer. The Contractor shall however, not required such consent for purchases of materials or to place contracts for minor details or for any part of the Works of which the manufacturer of supplier is named in the Contract. Any such consent shall not relieve the Contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workmen.		
Compliance with Laws	1.1.3	<ul><li>(a) The language governing this Contract shall be English.</li><li>The "Ruling Language" which shall be used to interpret this Contract shall be English.</li></ul>		
		Communication between the Contractor and Engineer or Engineer's representative shall be in English.  (b) The law applicable to this Contract shall be the laws		
		of the Republic of Kenya. Except to the extent otherwise provided by the Contract, the Kenyan courts shall have exclusive jurisdiction to hear and to determine all actions and proceedings in connection with and arising out of the Contract, and the Contractor shall submit to the jurisdiction of		

Kenyan courts for the purpose of any such actions and proceedings.

# Contractor's General Obligations

4.1

4.2

(a) Within 28 days after receipt of the Engineer's order to commence the Works, the Contractor shall establish an office at the Site duly equipped for the Contractor's representative and his supervisory personnel.

The Contractor shall maintain this office throughout the Contract period. The said office shall be the legal domicile of the Contractor, and all correspondence sent to this office shall be deemed to have been sent to the Contractor's head office.

(b) A foreign Contractor or a Kenya-foreign joint venture, if not registered in Kenya under the applicable laws of Kenya, shall undertake registration upon receipt of the letter of acceptance and prior to signing of the Contract.

# **Performance Security**

The Contractor shall obtain a Performance Security within 14 days after receiving the Letter of Acceptance

The Performance Security shall be issued by a Bank incorporated in Kenya. The amount of guarantee shall be 10% of the contract amount.

The bank guarantee, shall be issued either (a) by an established and reputable bank approved by the Employer and located in Kenya or a foreign bank through a correspondent established and reputable bank located in Kenya and approved by the Employer or (b) directly by a foreign bank acceptable to the Employer. The performance security shall normally be in the currency or currencies requested for payment by the Contractor and in the same proportions as those requested for payment in the Contract.

The performance security may, subject to the approval of the Engineer, be adjusted at the end of each period of 12months to reflect the residual value of the Contract Works.

The performance guarantee shall be valid until a date 28days after the date of issue of the Taking-Over Certificate. The security shall be returned to the Contractor within 28 days of the expiration.

Programme

8.3 The time within which the Programme shall be submitted shall be twenty eight (28) days. This detailed Programme shall be based upon the programme submitted by the Contractor as part of his tender and shall, in no material manner, deviate from the said programme.

The Contractor shall allow in his Programme for the following 11 public holidays per calendar year in Kenya upon which the Contractor shall not be permitted to work.

- a) New Year's Day (1st January)
- b) Good Friday

- Easter Monday c)
- Labour Day (1st May) d)
- Madaraka Day (1st June) e)
- Idd-Ul-Fitr f)
- Moi Day (10th October) g)
- Mashujaa Day (20th October) h)
- Jamhuri Day (12th December) i)
- j) Christmas Day (25th December)
- **Boxing Day** (26th December) k)

The Contractor should also allow per calendar year for a further 4 unspecified public holidays which may be announced by the Government of Kenya with no prior notification, and upon which he shall not be permitted to work.

The Employer shall have the right to withhold payment at any time if the Contractor fails to submit the contractual construction programmes in accordance with sub clause 14.1 above or revise construction programmes due to his negligence, failure or omission.

#### Cash Flow Estimate to be submitted

The time limit within which a detailed cash flow estimate is to be submitted shall be twenty eight (28) days. In preparing the estimates, the Contractor shall make provision for Advance payment, repayment of advance, retention, payment for services provided by the Employer and timing implications of sub clause 60 – Certificates and Payments.

**Superintendence** 

The Contractor shall, within seven (7) days of receipt of the Engineer's order to commence the Works, inform the Engineer in writing, the name of the Contractor's representative and the anticipated date of his arrival on Site.

The Contractor's agent or representative on the Site shall be an Engineer registered as a Professional Engineer by the Engineers Board of Kenya in accordance with the Engineers Act of 2011 and shall be able to read, write and speak English fluently.

Safety procedures

Contractor's

4.8

6.8

The formulation and enforcement of an adequate safety program shall be the obligation of the Contractor with respect to all the Works under this Contract, regardless of whether performed by the Contractor or his subcontractors. The Contractor shall, within 14 days after commencement of the Works, meet the Engineer to present and discuss his plan for the establishment of such safety measures as may be necessary to provide against accidents, unsafe acts and so forth. Within 28 days after commencement of the Works, the Contractor shall submit a written safety program to the Engineer covering the overall Works and based on the laws and regulations of Kenya. In addition, he shall prepare special safety programs for blasting and handling of explosives as stipulated in the General and Special Specifications.

Notwithstanding the foregoing, the Contractor shall observe the following measures with a view to reducing or eliminating adverse environmental effects by the Site Works:

- (i) All queries and borrow pits shall be filled and landscaped to their original state after extraction of construction material
- (ii) Soil erosion due to surface runoff or water from culverts or other drainage structures should be avoided by putting in place proper erosion control measures that shall include, but not limited to grassing, planting of trees, gabions etc.
- (iii) Long traffic diversion roads shall be avoided so as to minimize the effect of dust on the surrounding environment. In any case all diversions shall be kept damp and dust free at the Contractor's expense.
- (iv) Spillage of oils, fuels and lubricants shall be avoided and if spilt, shall be collected and disposed off in such a way as not to adversely affect the environment.
- (v) Rock blasting near settlement areas shall be properly coordinated with the relevant officers of the Government so as to minimize noise pollution and community interference.
- (vi) Dumping shall be done only at designated dumping areas and not haphazardly on surroundings. The formulation and enforcement of an adequate safety program shall be the obligation of the Contractor with respect to all the Works under this Contract, regardless of whether performed by the Contractor or his subcontractors. The Contractor shall, within 14 days after commencement of the Works, meet the Engineer to present and discuss his plan for the establishment of such safety measures as may be necessary to provide against accidents, unsafe acts and so forth. Within 28 days after commencement of the Works, the Contractor shall submit a written safety program to the Engineer covering the overall Works and based on the laws and regulations of Kenva. In addition, he shall prepare special safety programs for blasting and handling of explosives as stipulated in the General and Special Specifications.

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Insurance

18

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- (v) Rock blasting near settlement areas shall be properly coordinated with the relevant officers of the Government so as to minimize noise pollution and community interference.
- (vi) Dumping shall be done only at designated dumping areas and not haphazardly on surroundings. The Contractor shall also be liable for all payments or compensation, if any, that are levied in connection with the dumping of part or all of any such material." Any work ordered to be executed under this clause shall be done at a time and in a manner as directed by the Engineer so as to interfere as little as possible with the operations of the Employer or of other contractors and no extension(s) of the defects liability period will be allowed for the execution of this Work.

The Contractor shall also be liable for all payments or compensation, if any, that are levied in connection with the dumping of part or all of any such material." If the Engineer desires to secure final payment to any nominated sub-contractor before final payment is due to the Contractor and if such sub-contractor has satisfactorily indemnified the Contractor against any latent defects, the Engineer may, in an interim certificate, include an amount to cover the said final payment, and thereupon the Contractor shall pay to such nominated sub-contractor the amount so certified. Upon such final payment, the amount named in the Appendix to Form of Tender as Limit of Retention Money shall be reduced by the sum which bears the same ratio to the amount as does the subcontract and sub-contractor shall be discharged from all liability for the Work, materials or goods executed or supplied by such subcontractor under the Contract to which the payment relates In the event that an advance payment is granted, the following shall apply:-

- a) On signature of the Contract, the Contractor shall at his request, and without furnishing proof of expenditure, be entitled to an advance of 10% (ten percent) of the original amount of the Contract. The advance shall not be subject to retention money.
- b) No advance payment may be made before the Contractor has submitted proof of the establishment of deposit or of a directly liable guarantee satisfactory to the Employer in the amount of the advance payment. The guarantee shall be in the same currency as the advance.

# **Royalties** 7.8

# **Defects Liability** 11

# Provisional Sums

# 14.7 Advance payment

- c) Reimbursement of the advance shall be effected by deductions from monthly interim payments.
- d) Reimbursement of the lump sum advance shall be made by deductions from the Interim payments and where applicable from the balance owing to the Contractor. Reimbursement shall begin when the amount of the sums due under the Contract reaches 20% of the original amount of the Contract. It shall have been completed by the time 80% of this amount is reached.

The amount to be repaid by way of successive deductions shall be calculated by means of the formula:

$$R = A (x1-x11)/80-20$$

Where:

R = the amount to be reimbursed

A = the amount of the advance which has been granted

X1 = the amount of proposed cumulative payments as a percentage of the original amount of the Contract. This figure will exceed 20% but not exceed 80%.

X11 = The amount of the previous cumulative payments as a percentage of the original amount of the Contract. This figure will be below 80% but not less than 20%.

(e) With each reimbursement the counterpart of the directly liable guarantee may be reduced accordingly.

# **Section X - Contract Forms**

#### **Table of Forms**

- FORM No. 1 NOTIFICATION OF INTENTION TO AWARD
- FORM No. 2 NOTIFICATION OF AWARD LETTER OF ACCEPTANCE
- FORM No. 3 CONTRACT AGREEMENT
- FORM No. 4 PERFORMANCE SECURITY [Option 1 Unconditional Demand Bank Guarantee]
- FORM No. 5 PERFORMANCE SECURITY [Option 2 Performance Bond]
- FORM No. 6 ADVANCE PAYMENT SECURITY
- FORM No. 7 RETENTION MONEY SECURITY

FORM No. I - Notification of Intention to Award [This Notification of Intention to Award shall be sent to each Tenderer that submitted a Tender.] [Send this Notification to the Tenderer's Authorized Representative named in the Tender Information Form]

For the attention of Tenderer's Authorized Representative
Name:[insert Authorized Representative's name] Address: [insert Authorized
Representative's Address] Telephones: [insert Authorized Representative's telephone/fax numbers] Email
Address: [insert Authorized Representative's email address]
[IMPORTANT: insert the date that this Notification is transmitted to Tenderers. The Notification must be sent to all Tenderers simultaneously. This means on the same date and as close to the same time as possible.]
<b>Date of Transmission</b> : This Notification is sent by: [email] on [date] (local time)
Procuring Entity: [insert the name of the Procuring
Entity] Contract title: [insert the name of the contract]
Country: Kenya, County(if the Procuring Entity is from a County)
This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The

- transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:
  - a) Request a debriefing in relation the evaluation of your Tender, and/or
  - b) Submit a Procurement-related Complaint in relation to the decision to award the contract.

## 1. The successful Tenderer

Name: [insert name of successful Tenderer] Address: [insert address of the successful Tenderer] Contract price: [insert contract price of the successful Tender]

**2 Other Tenderers**: insert names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as well as the Tender price as read out.]

	Name of Tenderer	Tender price	Evaluated Tender price	Comments (if any)
1				
2				
3				
4				
5				
6				
7				
Etc.				

# 1. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on [insert date] (local time).

You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (3) Business Days of receipt of this Notification of Intention to Award. Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:

**Attention**: [insert full name of person, if applicable] **Title/position**: [insert title/position] **Procuring Entity**:

[insert name of Procuring Entity] **Email address**: [insert email address]

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end. The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

## 2. How to make a complaint?

**Period:** Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [insert date] (local time).

Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:

Attention: [insert full name of person, if applicable]

Title/position: [insert title/position] Procuring

Entity: [insert name of Procuring Entity] Email

address: [insert email address]

At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

In summary, there are four essential requirements:

- a) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process, and is the recipient of a Notification of Intention to Award.
- b) The complaint can only challenge the decision to award the contract.
- c) You must submit the complaint within the period stated above.
- d) You must include, in your complaint, all of the information necessary to support your case.
- e) The application must be accompanied by the fees set out in the Procurement Regulations, which shall not be refundable (information available from the Public Procurement Authority at <a href="https://www.ppoa.go.ke">www.ppoa.go.ke</a>.

# 3. Standstill Period

- a) **DEADLINE:** The Standstill Period is due to end at midnight on [insert date] (local time).
  - i) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
- (ii) The Standstill Period may be extended as stated in Section 4 above.

If you have any questions regarding this Notification please do not hesitate to contact

us. On behalf of the Procuring Entity:
Name
Title and Position
Signature
Date
FORM NO. 2 - NOTIFICATION OF AWARD
Letter of Acceptance
[letter head paper of the Procuring Entity]
[date]
<u>FORMAT</u>
To: [name and address of the Contractor]
This is to notify you that your Tender dated [date] for execution of the [name of the Contract and identification number, as given in the SCC] for the Accepted Contract Amount [amount in numbers and words] [name of currency], as corrected and modified in accordance with the Instructions to Tenderers, is hereby accepted by our Agency.
You are requested to furnish the Performance Security within 30 days in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section X, Contract Forms, of the tender document.
We attach a copy of the Contact for your
And of a Complexity
Authorized Signature:
Name and Title of
Signatory: Name of
Agency:
Attachment: Contract Agreement

# FORM NO. 3 – CONTRACT AGREEMENT

ТН	IS AGREEMENT made the	day of	, between			
Ent	tity"), of the one part, and	ofof				
Co	ntractor"), of the other part:					
exe	ecuted by the Contractor, and has ac	res that the Works known asccepted a Tender by the Contractor fets therein, The Procuring Entity and	or the execution and completion of these			
1.	In this Agreement words and expr the Contract documents referred t		gs as are respectively assigned to them in			
2.	The following documents shall be Agreement shall prevail over all o		onstrued as part of this Agreement. This			
	<ul><li>a) The Letter of Acceptance</li><li>b) The Letter of Tender</li></ul>					
	c) The addenda Nos	(if any)				
	d) The Particular Conditions					
	e) The General Conditions;					
	f) The Specification					
	g) The Drawings; and					
	h) The completed Schedules ar	nd any other documents forming part	of the contract.			
3.	In consideration of the payments to be made by the Procuring Entity to the Contractor as specified in the Agreement, the Contractor hereby covenants with the Procuring Entity to execute the Works and to remed defects therein in conformity in all respects with the provisions of the Contract.					
4.	of the Works and the remedying of		deration of the execution and completion or such other sum as may become payable escribed by the Contract.			
	IN WITNESS whereof the parties laws of Kenya on the day, month		to be executed in accordance with the			
	Signed by					
		(for the F	rocuring Entity)			
	Signedby					
			e Contractor)			

#### FORM NO. 4 - PERFORMANCE SECURITY

- (Unconditional Demand Bank Guarantee)

[Gı	uarantor letterhead or SWIFT identifier code]			
Bei	neficiary:[insert name and Address of Procuring			
Ent	ity] Date:[Insert date of issue]			
PE	RFORMANCE GUARANTEE No.:			
Gu	arantor: [Insert name and address of place of issue, unless indicated in the letterhead]			
1.	We have been informed that (herein after called "the Applicant") has entered into Contract No dated with the Beneficiary, for the execution of (herein after called "the Contract").			
2.	Further more, we understand that, according to the conditions of the Contract, a performance guarantee is required.			
3.	At the request of the Applicant, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of ( ),¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.			
4.	This guarantee shall expire, no later than the			
5.	The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."			
[Name of Authorized Official, signature(s) and seals/stamps]  Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.				

<sup>&</sup>lt;sup>1</sup>The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency(cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Procuring Entity might consider adding the following text to the form, at the end of the pen ultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

#### FORM No. 5 - PERFORMANCE SECURITY OPTION 2- (Performance Bond)

[Note: Procuring Entities are advised to use Performance Security—Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]

[Guarantor letterhead or SWIFT identifier code]

Be	Beneficiary:	[insert name and Address	s of Procurir	ıg
En	Entity] Date:	[Insert date of issue]	PERFORM	IANCE
BO	BOND No.:			
Gı	Guarantor: [Insert name and address of pl	lace of issue, unless indicated in	the letter he	ead]
1.	. By this Bond	e held and firmly bound unto_ ity") in theamountof_ and proportions of currencies in elves, their heirs, executors, admin	for which the C	or the payment of which sum Contract Price is payable, the
2	WHEREAS the Contractor has entered 20, for amendments thereto, which to the extended after referred to as the Contract.	in accordance with the documen	ıts, plans, sp	ecifications, and

- NOW, THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Procuring Entity to be, in default under the Contract, the Procuring Entity having performed the Procuring Entity's obligations there under, the Surety may promptly remedy the default, or shall promptly:
  - 1) Complete the Contract in accordance with its terms and conditions; or
  - 2) Obtain a tender or tenders from qualified tenderers for submission to the Procuring Entity for completing the Contract in accordance with its terms and conditions, and upon determination by the Procuring Entity and the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and Procuring Entity and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "Balance of the Contract Price," as used in this paragraph, shall mean the total amount payable by Procuring Entity to Contractor under the Contract, less the amount properly paid by Procuring Entity to Contractor; or
  - 3) Pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions upto a total not exceeding the amount of this Bond.
- 4 The Surety shall not be liable for a greater sum than the specified penalty of this Bond.
- Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Procuring Entity named here in or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.

of		
SIGNED ON	on behalf of	
By	in the capacity of	
In the presence of		
SIGNED ON	on behalf of	
By	in the capacity of	

#### FORM NO. 6 - ADVANCE PAYMENT SECURITY

	de] [Guarantor letterhead o rSWIFT identifier code]
Be	neficiary:[Insert name and Address of Procuring
Ent	tity/ Date:[Insert date of issue]
ΑD	OVANCE PAYMENT GUARANTEE No.: [Insert guarantee reference number]
Gu	arantor: [Insert name and address of place of issue, unless indicated in the letterhead]
1.	We have been informed that (herein after called "the Applicant") has entered into Contract No dated with the Beneficiary, for the execution of (herein after called" the Contract").
2.	Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum() is to be made against an advance payment guarantee.
3.	At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of()¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:  a) Has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.
4.	A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Applicant on its account numberat
5.	The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the
6.	The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.
	[Name of Authorized Official, signature(s) and seals/stamps]
	Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Procuring Entity.

Insert the expected expiration date of the Time for Completion. The Procuring Entity should note that in the event of an extension of the time for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Procuring Entity might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

# FORM NO. 7 - RETENTION MONEY SECURITY

[Demand Bank Guarantee]

$[G\iota$	uarantor letterhead]
	Insert name and Address of Procuring  [Insert date of issue]
	VANCE PAYMENT GUARANTEE No.:  sert guarantee reference number]
Gua	arantor: [Insert name and address of place of issue, unless indicated in the letterhead]
1.	We have been informed that[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (herein afte realled" the Contractor") has entered into Contract No[insert reference number of the contract] dated with the Beneficiary, for the execution of[insert name of contract and brief description of Works] (herein after called" the Contract").
2.	Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys upto the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of [insert the second half of the Retention Money] is to be made against a Retention Money guarantee.
3.	At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of <code>[insert amount in figures] ([insert amount in words])^l upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.</code>
4.	A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the second half of the Retention Money as referred to above has been credited to the Contractor on its account numberat[insert name and address of Applicant's bank].
5.	This guarantee shall expire no later than the Day of, 2 <sup>2</sup> , and any demand for payment under it must be received by us at the office indicated above on or before that date.
6.	The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.
	[Name of Authorized Official, signature(s) and seals/stamps]
	Note: All italicized text (including foot notes) is for use in preparing this form and shall be deleted from the final product.

<sup>&</sup>lt;sup>1</sup>The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.

<sup>&</sup>lt;sup>2</sup>Insert a date that is twenty-eigh tdays after the expiry of retention period after the actual completion date of the contract. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

#### Appendix to Bid

#### **Schedule of Adjustment Data**

[Note: this schedule should be inserted in the Bidding Document when prices are to be adjustable – refer to BDS ITT 14.5; it must be deleted for a fixed price Contract]

Section(s) of Works: [the insertion of various sections and separate tables will be necessary when sections of works (or the Bill of Quantities) have very different currency contents]

#### **Table of Weightings**

Factor and description	Range of Values permitted	Weightings for each payment currency (2)		Totals (3)
	(1)	(national currency)	(foreign currency: € or US\$)	
X Non Adjustable	0.1			0.1
A) Labour	0.15-0.25			
B) Fuel,Oils and Lubricants	0.1-0.20			
C) Aggregates	0.1-0.2			
D) Bitumen	0.05-0.15			
E) Steel Reinforcement	0.05-0.1			
F)Cement/Lime	0.1-0.2			
G)Plant and Maintenance of Plant	0.1-0.25			
Total	1.00			1.00

The Employer shall indicate (i) the value of the fixed element X in the price adjustment formula in Columns (1) and (3), and (ii) acceptable ranges for the weightings (a), (b), (c) of the adjustment factors in the formula.

The Bidder shall indicate in Columns (2) the specific weightings for each factor and bid currency, and in Column (3) the sub-totals for each factor, which must be within the range specified by the Employer in Column (1), respectively; furthermore, the sum of the sub-totals in Column (3) must be equal to 1 (one).

A formula shall be used for each payment currency, to be derived from the above Table as follows: the weightings to be used in each formula will be derived from the values in each currency column, respectively, by dividing each individual value by the sum of the values in the given column.

**Table A: National Currency** 

Index Code	Index Description/	Publication Source for the	Base Value in [month] (1)
	identification	Index	<i>[monny</i>
(T)			
(S)			
( )			

# **Table B: Foreign Currency**

The Bidder shall fill a table similar to the following one for each foreign currency of payment, as appropriate.

Index Code	Index	Publication	Base Value in
	Description/	Source for the	[month] <sup>(2)</sup>
	identification	Index	
(T)			
(S)			
( )			

Bidder's Signature

Insert the month of the Base Date, i.e. the month of the Deadline for Bid Submission in accordance with ITT Clause 22.